

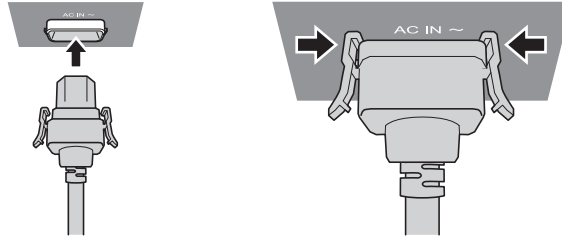
# Powering on/off

## 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.

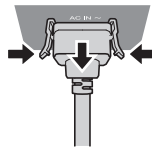
For details of power cord handling, refer to “Read this first!” (➔ page 2).

### 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

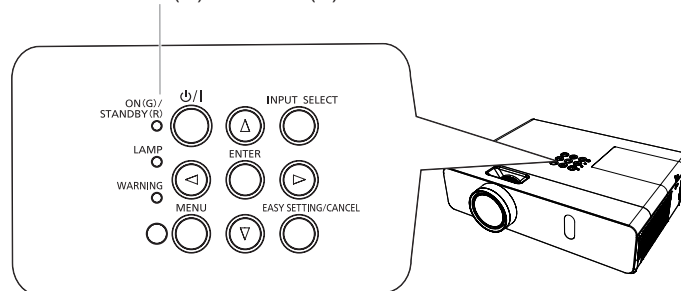


- 1) Confirm that the projector is in standby mode, and remove the power plug from the outlet.
- 2) Remove the power cord connector from the <AC IN> terminal of the projector body while pressing the side tabs.

## 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)>



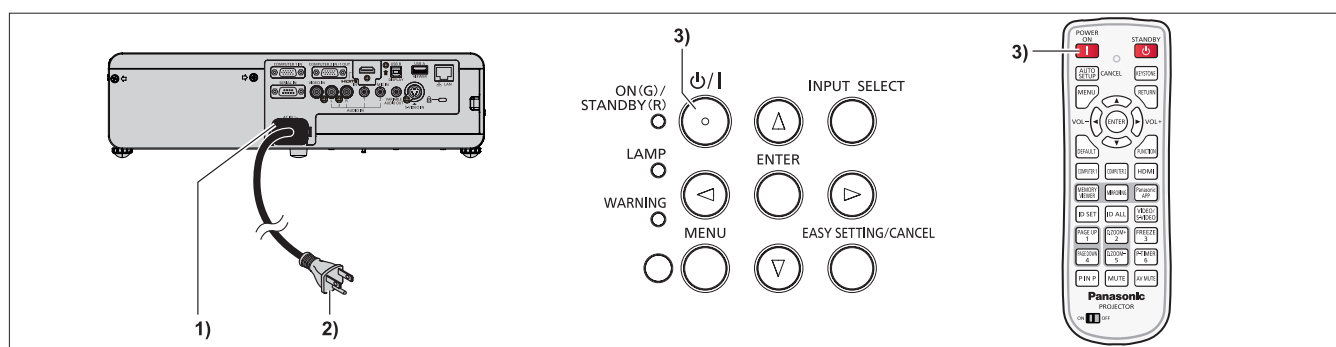
Indicator status		Status
	Off	The power cord is unplugged.
Red	Lit	The power is switched off (in standby mode). The [PROJECTOR SETUP] menu ➔ [ECO MANAGEMENT] ➔ [STANDBY MODE] is set to [ECO].
	Blinking	The power is switched off (in standby mode). The [PROJECTOR SETUP] menu ➔ [ECO MANAGEMENT] ➔ [STANDBY 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 36) 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 the power on <⏻> button 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.**

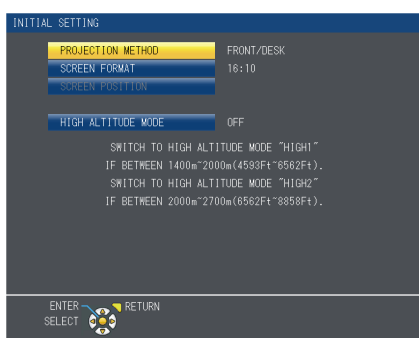


2) Press the <ENTER> button to proceed to the initial setting.

### Initial setting (installation setting)

Set each item.

#### PT-VW355N



#### PT-VX425N



1) Press ▲▼ to select an item.

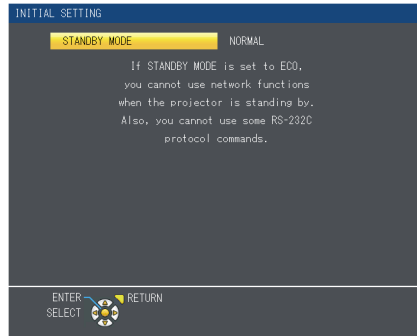
Item	Description	Page
[PROJECTION METHOD]	Set [PROJECTION METHOD] depending on the installation mode. After completed the initial setting, you can change the setting from the [PROJECTOR SETUP] menu → [PROJECTION METHOD].	78
[SCREEN FORMAT]*1	Set the screen format (aspect ratio) and display position of the image. After completed the initial setting, you can change the settings of each item from the [DISPLAY OPTION] menu → [SCREEN SETTING].	72
[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].	72
[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.	78

\*1 Only for PT-VW355N.

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>	80

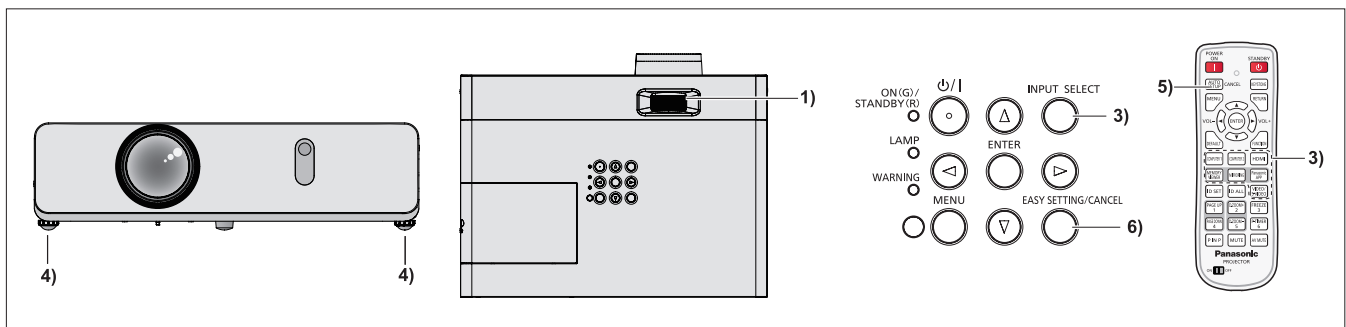
- 1) Press ◀▶ to switch the setting.
- 2) Press the <ENTER> button.
  - Confirm the setting value and complete the initial setting.

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 46)
- 2) Change the settings of the [PROJECTOR SETUP] menu → [PROJECTION METHOD] depending on the installation mode. (⇒ page 78)
  - Refer to “Navigating through the menu” (⇒ page 56) 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.
  - <MEMORY VIEWER>, <MIRRORING> and <Panasonic APP> buttons on the remote control can also be used to switch the input signal.
- 4) Adjust the front, back and sideways tilt of the projector with the adjustable feet. (⇒ page 35)
- 5) If the input signal is an analog RGB signal, press the <AUTO SETUP/CANCEL> button.

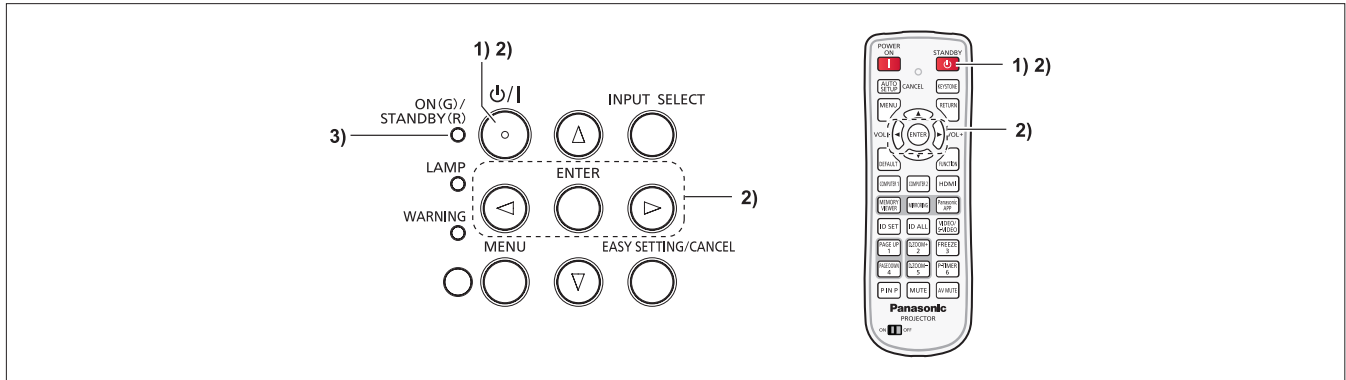
6) Press the <EASY SETTING/CANCEL> button on the control panel.

- For details, refer to "Adjusting the projected image via EASY SETTING function". (➔ page 47)

Note

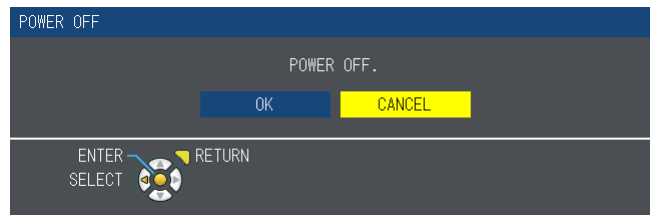
- When the projector is switched on for the first time after purchase as well as when the [PROJECTOR SETUP] menu → [INITIALIZE ALL] is executed, the initial setting screen is displayed after projection starts.

Powering Off the Projector



1) Press the power <⏻/⏷> button on the control panel or the power standby <⏻> button on the remote control.

- The following message appears.



2) Press ◀▶ to select [OK], and press the <ENTER> button.

(Or press the power <⏻/⏷> button on the control panel or the power standby <⏻> button 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.

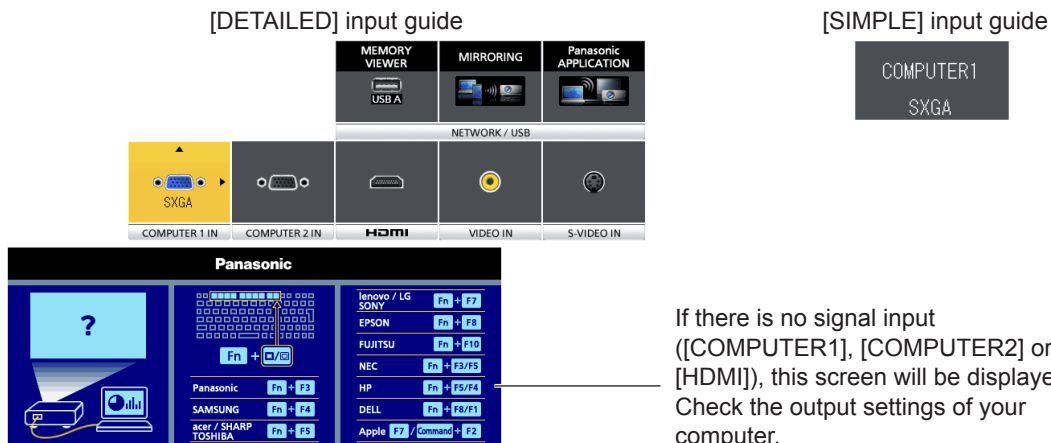
# Projecting

Check the connections of the peripheral devices (➔ page 36) and connection of the power cord (➔ page 41) and switch on the power (➔ page 42) to start the projector. Select the image and adjust the state of the image.

## Selecting the input signal

Select an input signal.

- 1) Press <COMPUTER 1>, <COMPUTER 2>, <HDMI>, <VIDEO/S-VIDEO>, <MEMORY VIEWER>, <MIRRORING> or <Panasonic APP> 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>CR] or [RGB/YP<sub>B</sub>PR] (➔ page 64).
- Check the aspect ratio of the screen and the image and select the optimum aspect ratio under the [POSITION] menu (➔ page 68).

## How to adjust the state of the image

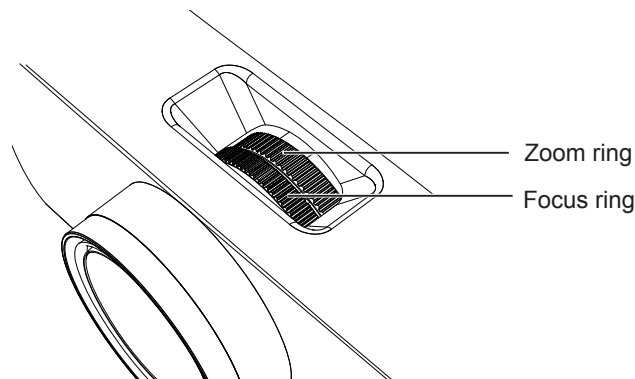
If the projected image or the position is not correct when the positioning of the projector and the screen is correctly installed, adjust the focus and zoom.

### 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 35).

### 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 65).

## Adjusting the projected image via EASY SETTING function

EASY SETTING function makes the semi-automatically adjustment possible, so that to get the optimal image.

EASY SETTING function including these following setting items:

[FOCUS ASSIST]	The color and the length of the bar assists the focus adjustment.
[SCREEN FIT]	Detect and correct the image automatically to fit the frame. If you can not detect the frame of the screen, Keystone executes automatically.
[COLORBOARD]	The color values will change automatically to reach the optimal white balance according to the color of screen.

### Executing the EASY SETTING function

When all of the above mentioned functions are set to [ON] (However, [SCREEN FIT] is set to [FULL] or [ORIGINAL]), the adjustment orders are as follows.

- 1) **Project an image.**
- 2) **Adjust the zoom ring so that the image is larger than the screen frame.**
- 3) **Press the <EASY SETTING/CANCEL> button on the control panel during projection.**
  - A test pattern for [FOCUS ASSIST] appears on the screen and the focus assist bar appears in the center bottom of the screen.



- 4) **Rotate the focus ring until the bar changes to the maximum level.**
  - The focus assist bar will display different colors and different lengths according to the clarity of image.



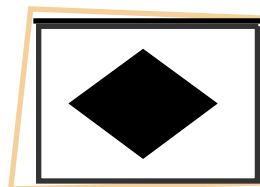
Color	State
Red	The projected image is turning unclear.
Yellow	The projected image is turning clear.
Blue	The projected image is optimal.

Length	State
Short	The focus of the projected image is shifting greatly.
Long	The focus of the projected image is shifting slightly.
Maximum length	The projected image is optimal.

### Attention

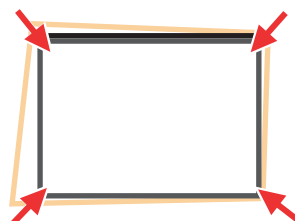
- When the EASY SETTING function is started, the focus assist bar does not display blue color, even if the focus adjustment is optimal. So readjust the focus with rotating the focus ring.

- 5) **Press the <ENTER> button on the remote control or the control panel.**
  - The adjustment image of [SCREEN FIT] appears.



### Screen frame detected

If it detects a screen frame, the projected image is corrected to fit the screen frame automatically.





Adjust the image to fit the screen according to the SCREEN FIT function's different states.

<b>[FULL]</b>	The aspect ratio will change to fit the screen frame.
<b>[ORIGINAL]</b>	The aspect ratio will maintain to fit the screen frame. The image may be displayed with the left and right/ top and bottom parts cut off.

Then the COLORBOARD function is activated to get an optimal image. [CORNER CORRECTION] appears and it can be adjusted manually if it is necessary (➔ page 66). It will exit without any operation in few seconds.

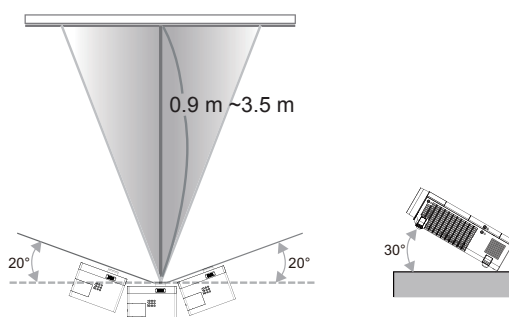
### Screen frame undetected

If it does not detect a screen frame, the KEYSTONE function starts to work automatically and the keystone can be adjust horizontally and vertically.

Then the COLORBOARD function is activated to get an optimal image. [KEYSTONE] appears and it can be adjusted manually if it is necessary (➔ page 65). It will exit without any operation in few seconds.

The conditions of SCREEN FIT function to adjust the projected image as follows.

Items	Conditions
<b>Projected image</b>	40" - 100" (after correction)
<b>Distance between projector and screen</b>	approx. 0.9 m to 3.5 m (when execute the keystone function, less than 2.5 m)
<b>Correction angle</b>	approx. 20° right and left /approx. 30° up and down



### Attention

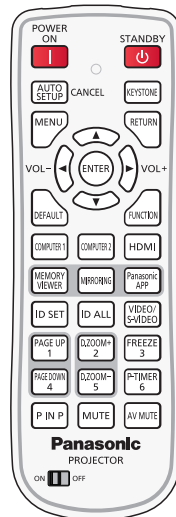
- If the FOCUS ASSIST / SCREEN FIT / COLORBOARD function is working, please do not block some or all of the projected image to interfere with the projected image, such as putting things before the camera which is on the front of the projector body. Otherwise, the projected image will not be corrected properly.

### Note

- [SCREEN FIT] corrects the projected image when it detects two or more sides inside the projected area, and fits the detected frame.
- [SCREEN FIT] may not work well in bright environments and the projected image is in low contrast. In this case, make the room darker, and then try executing [SCREEN FIT] again.
- Because [SCREEN FIT] uses a sensor, it may not work properly depending on the condition of the projection surface (deflections, patterns, and so on), the distance between projector and screen, or the effects of outside light such as fluorescent. In this case, make the adjustments manually.
- It is recommended to use a black frame screen when using SCREEN FIT function.
- When the EASY SETTING function does not complete, [Projection situation is out of condition.] message will be displayed. Please reconfirm the setting status of the projector.
- When the EASY SETTING function is executing, press the <EASY SETTING/CANCEL> button to exit, and then the next function will execute.
- When the EASY SETTING function is executing, press the power <P> button to exit, and then return to the previous state of the running EASY SETTING function.
- When the projector is mounted on a ceiling, do not use the EASY SETTING function. Otherwise it may not be adjusted correctly.
- When the COLORBOARD function is executed, [PICTURE MODE] will be switched to [EASY SETTING] mode automatically. When you want to cancel the status of the running EASY SETTING function, please set from [EASY SETTING] mode to any other mode of [PICTURE MODE]. (➔ page 60)
- When the SCREEN FIT function is executed, [KEYSTONE] or [CORNER CORRECTION] will be adjusted automatically. When you want to fine-tune the keystone or cancel the status of the running EASY SETTING function, please adjust [KEYSTONE] or [CORNER CORRECTION] manually. (➔ page 65)



## Basic operations by using the remote control



### Using the AUTO SETUP function

The automatic setup function can be used to automatically adjust the resolution, clock phase, and image position when analog RGB signals consisting of bitmap images such as computer signals are being input. Supplying images with bright white borders at the edges and high-contrast black and white characters is recommended when the system is in automatic adjustment mode.

Avoid supplying images that include halftones or gradation, such as photographs and computer graphics.



**AUTO SETUP** button

1) Press the <AUTO SETUP/CANCEL> button on the remote control.

#### Note

- The [CLOCK PHASE] may shift even if it has completed without any incident. In such cases, adjust the [POSITION] menu → [CLOCK PHASE] (➔ page 67).
- Automatic adjustment may not work depending on the model of the computer and the input signal.
- Images may be disrupted for a few seconds during automatic adjustment, but it is not a malfunction.
- If you press any button on the remote control during the automatic adjustment, the automatic adjustment will be canceled.
- If the automatic setup function is used while moving images are being input, the adjustment may not be performed properly even for an RGB signal that can use automatic setup.

### Using the KEYSTONE button

You can correct the trapezoidal distortion that occurs when the projector is installed tilted or when the screen is tilted.



**KEYSTONE** button

1) Press the <KEYSTONE> button to select [KEYSTONE] or press the <KEYSTONE> button again to select [CORNER CORRECTION].

- The [KEYSTONE] or [CORNER CORRECTION] individual adjustment screen is displayed.

2) Press ▲▼◀▶ to adjust the item.

#### Note

- For more details, refer to the [POSITION] menu → [KEYSTONE] (➔ page 65).

### Controlling the volume of the speaker

You can control the volume of the projector's speaker or audio output.



1) Press the <VOL -> button or <VOL +> button on the remote control.

- This operation can be also performed using the ◀▶ buttons on the control panel.

<VOL ->	Decreases the volume.
<VOL +>	Increases the volume.

### Using the FUNCTION button

Some operations in the menu can be assigned to the <FUNCTION> button on the remote control so that it can be used as an easy shortcut button.



1) Press the <FUNCTION> button on the remote control.

#### To assign functions to the <FUNCTION> button

1) Press the <MENU> button on the control panel or the remote control to display the menu items (main menu, sub-menu or details menu) you want to assign.

- Refer to “Navigating through the menu” (➔ page 56) for the operation of the on-screen menu.

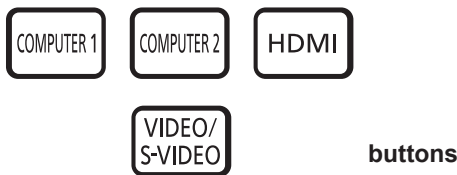
2) Press and hold the <FUNCTION> button for 3 seconds or more.

#### Note

- After settings have been completed, the assigned menu item (main menu, sub-menu or details menu) will be displayed in [ASSIGNED FUNCTION] of the operation guide under the menu.
- Perform the [PROJECTOR SETUP] menu → [FUNCTION BUTTON] (➔ page 81) when deallocating functions.

### Switching the input signal

You can switch the input signals to project.



1) Press the <COMPUTER 1>, <COMPUTER 2>, <HDMI> or <VIDEO/S-VIDEO> button on the remote control.

- You can also press the <INPUT SELECT> button on the control panel.

<COMPUTER 1>	Switch to COMPUTER1 input.
<COMPUTER 2>	Switch to COMPUTER2 input.
<HDMI >	Switch to HDMI input.
<VIDEO/S-VIDEO>	Press this button to switch the input signal between VIDEO and S-VIDEO.

### Using the MEMORY VIEWER function

It is possible to project the video and pictures which are stored in the USB memory when the USB memory inserted into the projector.



1) Press the <MEMORY VIEWER> button on the remote control.

- Switches the input to MEMORY VIEWER.

### Note

- If you want to use this function, insert the USB memory directly into the <USB A/VIEWER> port. For details, please refer to "Memory Viewer function" (➔ page 116).
- When [MIRRORING] or [Panasonic APPLICATION] is selected in [CONNECTION LOCK], [KEY NOT APPLICABLE] screen will be displayed (➔ page 92).

### Using the MIRRORING function

The MIRRORING is a function to project the same images as the displayed images on the device with the projector. The MIRRORING function connects the Intel® WiDi / Intel® Pro WiDi / Miracast compatible device to the projector via wireless LAN.



button

#### 1) Press the <MIRRORING> button on the remote control.

- Switches the input to MIRRORING.

### Note

- For details, please refer to "About MIRRORING" (➔ page 123).
- When [MEMORY VIEWER] or [Panasonic APPLICATION] is selected in [CONNECTION LOCK], [KEY NOT APPLICABLE] screen will be displayed (➔ page 92).

### Using the Panasonic APPLICATION function

This function can be used to project still images or video to the projector through the supplied software "Wireless Manager ME6.3" with CD-ROM. In addition, the iOS application and Android application can also make it possible.

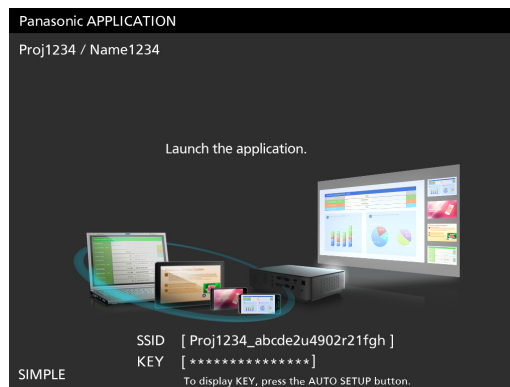


button

#### 1) Press the <Panasonic APP> button on the remote control.

- Switches the input to Panasonic APPLICATION, then the idle screen is displayed.

Panasonic APPLICATION idle screen



#### 2) Press the <AUTO SETUP/CANCEL> button.

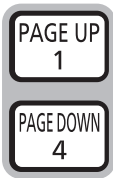
- If you select [SIMPLE] in [WIRELESS LAN], the SSID and KEY will be displayed.

### Note

- For details, please refer to the "Operating Instructions-Wireless Manager ME6.3" in CD-ROM.
- When [MEMORY VIEWER] or [MIRRORING] is selected in [CONNECTION LOCK], [KEY NOT APPLICABLE] screen will be displayed (➔ page 92).
- For details about how to use the application for iOS/Android, refer to the application guide described in the following URL.  
[iOS support site] <http://panasonic.net/avc/projector/ios/>  
[Android support site] <http://panasonic.net/avc/projector/android/>

### Using the PAGE UP/PAGE DOWN buttons

Scroll back and forth when viewing files such as PowerPoint which are projected through Wireless Manager.



buttons

1) Press the <PAGE UP/PAGE DOWN> buttons on the remote control.

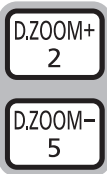
**Note**

- To use these buttons, connect with Wired LAN or Wireless LAN, connect <USB B/DISPLAY> port of the projector and your computer with a USB cable.

**Using the DIGITAL ZOOM function**

(Only for still image-based computer (RGB) and still image-based HDMI signals input)

You can enlarge the center area. You can also change the location of the area to be enlarged.



buttons

1) Press the <D.ZOOM +> button or < D.ZOOM -> button on the remote control.

- The moving screen is displayed.
- The [DIGITAL ZOOM] individual adjustment screen is displayed when executing the menu operation. For details, refer to [DISPLAY OPTION] → [OTHER FUNCTIONS] (➔ page 75).
- You can press the <RETURN> button to cancel the function.

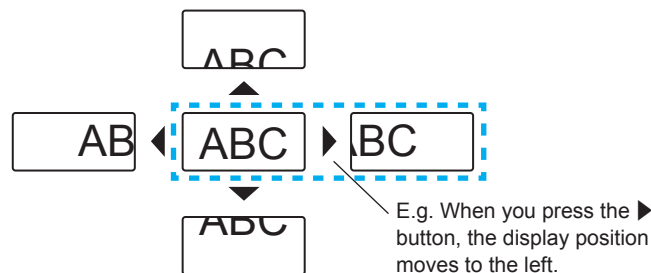
■ Button functions during [DIGITAL ZOOM]

Operation menu	Operation	Adjustment	Adjustment range
	Press the <D.ZOOM +> button or ► button.	Increases magnification.	1.0 ~ 3.0
	Press the <D.ZOOM -> button or ◀ button.	Decreases magnification.	

■ Button functions of moving screen

Operation menu	Operation	Adjustment
	Press the ▲ button.	The display position moves down.
	Press the ▼ button.	The display position moves up.
	Press the ◀ button.	The display position moves right.
	Press the ► button.	The display position moves left.

- When you have executed the operation of remote control directly, the individual adjustment screen is not be displayed and the operation menu of the moving screen is displayed. At this time, you can adjust the magnification by using the <D.ZOOM +> button or <D.ZOOM -> button on the remote control.



**Note**

- Magnification can be set from 1.0x to 3.0x in 0.1 increments.
- When press the <MENU> button during [DIGITAL ZOOM], the adjustment value of DIGITAL ZOOM will be cancelled.
- When the input signals change during [DIGITAL ZOOM], the adjustment value of DIGITAL ZOOM will be cancelled.
- When [DIGITAL ZOOM] is active, the FREEZE function is not available.
- The digital zoom function may not work properly for some still image-based signals.

## Using the FREEZE function

You can freeze the projected image and stop the sound temporarily, regardless of the playing condition of the external device.



**1) Press the <FREEZE> button on the remote control.**

- The video is paused and the audio is muted. [FREEZE] is displayed on the lower left of the screen during FREEZE.

**2) Press the <FREEZE> button again.**

- The video playback resumes and the audio is unmuted.

**Note**

- When no signal input, [KEY NOT APPLICABLE] message will appear.
- When [MIC] is set to [ON], the audio of MIC can be output even during FREEZE.

## Using the AV MUTE function

If the projector is not used for a certain period of time during the meeting intermission, for example, it is possible to turn off the audio and image temporarily.



**1) Press the <AV MUTE> button on the remote control.**

- The audio and image turn off.

**2) Press the <AV MUTE> button again.**

- The audio and image turn on.

**Note**

- When [MIC] is set to [ON], the audio of MIC can be output even during AV MUTE.

## Using the P IN P function

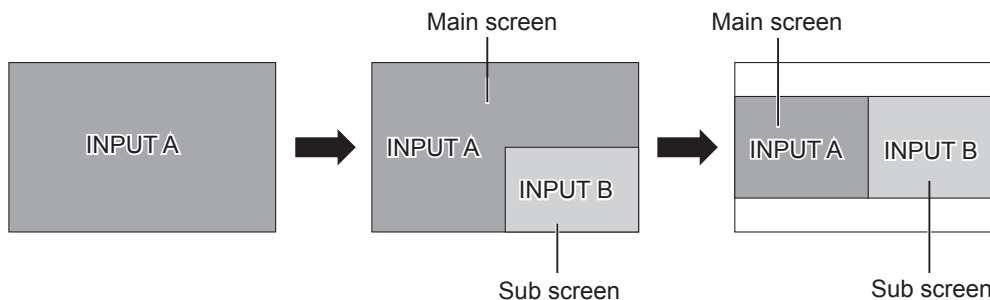
(Only for PT-VW355N)

Two images can be projected simultaneously in form of projection mode (a small sub screen in the main screen [P IN P] / a small sub screen side by side with the main screen [SIDE BY SIDE]).



**1) Press the <P IN P> button on the remote control.**

- Press this button to switch the mode ([P IN P]/[SIDE BY SIDE]).



**Note**

- For details, refer to [P IN P] (➔ page 75).

## Switch the input source

You can switch the input source of the main screen and sub screen while the P IN P function is operating.

**■ Switch the input source of the main screen**

Switch the input source as the same operation as the single screen.

**■ Switch the input source of the sub screen**

When two screens are displayed (when no menu is displayed), press the <ENTER> button, the red frame of the sub screen will be displayed. Switch the input source as the same operation as the single screen.

Press the <ENTER> button again, the red frame of the sub screen will disappear and then return to switch the input source of the main screen.

### Using the P-TIMER function

You can operate the presentation timer function.

Presentations, etc. can be performed while checking the elapsed time or time remaining in the preset time.



- 1) **Press the <P-TIMER> button on the remote control.**
  - The count is started.
  - The elapsed time or the remaining time is displayed at the bottom right of the projected image.
- 2) **Press the <P-TIMER> button again.**
  - The count is stopped.
- 3) **Press the <P-TIMER> button again.**
  - The count is resumed.

#### Note

- Pressing the <P-TIMER> button for at least 3 seconds to release the P-TIMER function.
- For details, please refer to the [DISPLAY OPTION] menu → [P-TIMER] (➡ page 74).

### Using the MUTE function

This button allows you to turn off the audio output temporarily.



- 1) **Press the <MUTE> button on the remote control.**
  - The audio turns off.
- 2) **Press the <MUTE> button again.**
  - The audio turns on.

### Setting the ID number of the remote control

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 unique ID number is assigned to each projector.

After setting the ID number of the projector, set the same ID number to the remote control.

The factory default ID number of the projector is set to [ALL]. When using a single projector, press the <ID ALL> button on the remote control. Also, you can control a projector by pressing the <ID ALL> button on the remote control even if you do not know the projector ID.



- 1) **Press the <ID SET> button on the remote control.**
- 2) **Within five seconds, press the one-digit ID number set on the projector using the number (<1> - <6>) buttons.**
  - If you press the <ID ALL> button, you can control the projectors regardless of the ID number setting of the projector.

#### Attention

- Since the ID number of the remote control can be set without the projector, do not press the <ID SET> button on the remote control carelessly. If the <ID SET> button is pressed and no number (<1> - <6>) buttons are pressed within five seconds, the ID number returns to its original value before the <ID SET> button was pressed.
- The ID number set on the remote control will be stored unless it is set again. However, it will be erased if the remote control is left with dead batteries. Set the same ID number again when the batteries are replaced.

#### Note

- Set the ID number of the projector from the [PROJECTOR SETUP] menu → [PROJECTOR ID]. (➡ page 78)

# Chapter 4 **Settings**

---

This chapter describes the settings and adjustments you can make using the on-screen menu.



# Menu Navigation

The on-screen menu (Menu) is used to perform various settings and adjustments of the projector.

## Navigating through the menu

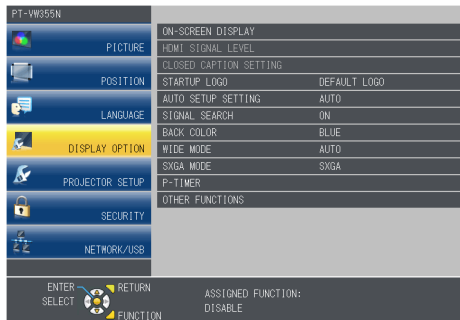
### Operating procedure



- 1) Press the <MENU> button on the remote control or the control panel.
  - The main menu screen appears.



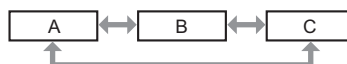
- 2) Press ▲▼ to select an item from the main menu.
  - The selected item is highlighted in yellow.



- 3) Press the <ENTER> button.
  - The sub-menu is displayed, and sub-menu items become selectable.



- 4) Press ▲▼ to select the desired sub-menu item, press ◀▶ or the <ENTER> button to set or adjust settings.
  - Some items will switch in order as follows each time you press ◀▶.



- For some items, press ◀▶ to display an individual adjustment screen with a bar scale as shown below.



**Note**

- Pressing the <MENU> button or <RETURN> button while the menu screen is displayed returns to the previous menu.
- Some items may not be adjusted or used for certain signal formats to be input to the projector. The menu items that cannot be adjusted or used are shown in gray characters, and they cannot be selected. [DIGITAL CINEMA REALITY] and [FRAME LOCK] may not be displayed depending on the input signal.
- Some items can be adjusted even if signals are not input.
- Individual adjustment screen is cleared automatically if no operation is performed for approximately five seconds.
- For menu items, refer to “Main menu” (➔ page 57) and “Sub-menu” (➔ page 58).

**Resetting adjustment values to the factory default**

If the <DEFAULT> button on the remote control is pressed, the values adjusted in the menu items are restored to the factory default settings.



**button**








- 1) Press the <DEFAULT> button on the remote control.

**Note**

- You cannot reset all the settings to the factory default at a time.
- To reset all the settings adjusted in the sub-menu item to the factory default one at a time, execute the [PROJECTOR SETUP] menu → [INITIALIZE ALL] (➔ page 84).
- Some items cannot be reset by pressing the <DEFAULT> button. Adjust each item manually.

**Main menu**

The main menu consists of the following 7 menu items.  
When a main menu item is selected, the screen changes to a sub-menu selection screen.

Main-menu item		Page
	[PICTURE]	60
	[POSITION]	65
	[LANGUAGE]	69
	[DISPLAY OPTION]	70
	[PROJECTOR SETUP]	77
	[SECURITY]	85
	[NETWORK/USB]	88

## Sub-menu

The sub-menu screen of the selected main menu appears, and you can set and adjust the various items in the sub-menu.

### [PICTURE]

Sub-menu item	Factory default	Page
[PICTURE MODE]	[STANDARD]	60
[CONTRAST]	[0]	60
[BRIGHTNESS]	[0]	61
[COLOR]* <sup>1</sup>	[0]	61
[TINT]* <sup>1</sup>	[0]	61
[SHARPNESS]	[8]	61
[COLOR TEMPERATURE]	[DEFAULT]	62
[IRIS]	[OFF]* <sup>2</sup>	62
[ADVANCED MENU]	-	62
[DAYLIGHT VIEW]	[AUTO]	63
[DIGITAL CINEMA REALITY]	[ON]	63
[NOISE REDUCTION]* <sup>3</sup>	[OFF]	63
[TV-SYSTEM]* <sup>3</sup>	[AUTO]	64
[RGB/YPbPr]/[RGB/YCbCr]* <sup>4</sup>	[AUTO]	64

\*1 Only for movie-based signals.

\*2 It may be different depending on the input signal.

\*3 Only when the <S-VIDEO IN >/<VIDEO IN> terminal is selected.

\*4 Only when the <COMPUTER 1 IN>/<HDMI IN> terminal is selected.

#### Note

- The factory default settings may vary depending on the picture mode.

### [POSITION]

Sub-menu item	Factory default	Page
[KEYSTONE]	-	65
[SHIFT]	-	66
[DOT CLOCK]* <sup>1</sup>	[0]	67
[CLOCK PHASE]* <sup>1</sup>	[0]	67
[OVER SCAN]	-	67
[ASPECT]	-	68
[FRAME LOCK]* <sup>1</sup>	[OFF]	68

\*1 Only for still image signals.

### [LANGUAGE]

Details (➔ page 69)

### [DISPLAY OPTION]

Sub-menu item	Factory default	Page
[ON-SCREEN DISPLAY]	-	70
[HDMI SIGNAL LEVEL]	[AUTO]	71
[CLOSED CAPTION SETTING]	-	71
[SCREEN SETTING]* <sup>1</sup>	-	72
[STARTUP LOGO]	[DEFAULT LOGO]	72
[AUTO SETUP SETTING]	[AUTO]	73
[SIGNAL SEARCH]	[ON]	73
[BACK COLOR]	[BLUE]	73
[WIDE MODE]	-	73
[SXGA MODE]	-	73
[P-TIMER]	-	74
[P IN P]* <sup>1</sup>	-	75
[OTHER FUNCTIONS]	-	75

\*1 Only for PT-VW355N.

**[PROJECTOR SETUP]** 

Sub-menu item	Factory default	Page
[STATUS]	-	77
[COMPUTER2 SELECT]	[COMPUTER2 IN]	77
[PROJECTOR ID]	[ALL]	78
[INITIAL START UP]	[LAST MEMORY]	78
[PROJECTION METHOD]	[FRONT/DESK]	78
[HIGH ALTITUDE MODE]	[OFF]	78
[LAMP POWER]	[NORMAL]	79
[ECO MANAGEMENT]	-	79
[EMULATE]	[DEFAULT]	80
[FUNCTION BUTTON]	-	81
[AUDIO SETTING]	-	81
[EASY SETTING]	-	83
[TEST PATTERN]	-	83
[FILTER COUNTER]	-	83
[INITIALIZE ALL]	-	84

**[SECURITY]** 

Sub-menu item	Factory Default	Page
[PASSWORD]	[OFF]	85
[PASSWORD CHANGE]	-	85
[TEXT DISPLAY]	[OFF]	86
[TEXT CHANGE]	-	86
[MENU LOCK]	[OFF]	86
[MENU LOCK PASSWORD]	-	86
[CONTROL DEVICE SETUP]	-	87

**[NETWORK/USB]** 

Sub-menu item	Factory default	Page
[WIRED LAN]	-	88
[WIRELESS LAN]	[SIMPLE]	89
[CONNECTION LOCK]	[OFF]	92
[NAME CHANGE]	-	92
[PASSWORD]	[OFF]	92
[PASSWORD CHANGE]	-	93
[NETWORK CONTROL]	[ON]	93
[AMX D.D.]	[OFF]	93
[Crestron Connected(TM)]	[OFF]	93
[LIVE MODE CUT IN]	[OFF]	93
[MULTI-LIVE]*1	-	94
[MEMORY VIEWER]	-	94
[MIRRORING]	-	95
[STATUS]	-	95
[INITIALIZE]	-	96

\*1 Only for [Panasonic APPLICATION] signals input.

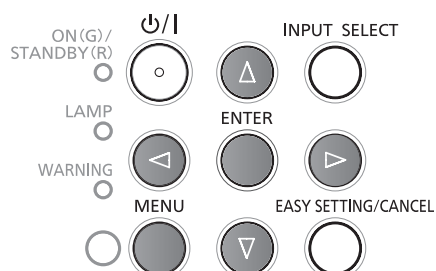
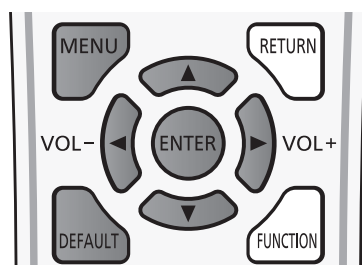
**Note**

- Some items may not be adjusted or used for certain signal formats to be input to the projector.  
The menu items that cannot be adjusted or used are shown in gray characters, and they cannot be selected.
- Sub-menu items and factory default settings differ depending on the selected input terminal.

## [PICTURE] menu

On the menu screen, select [PICTURE] from the main menu, and select an item from the sub-menu. Refer to "Navigating through the menu" (→ page 56) for the operation of the menu screen.

- After selecting the item, press ▲▼◀▶ to set.



### [PICTURE MODE]

You can switch to the desired picture mode suitable for the image source and the environment in which the projector is used.

- 1) Press ▲▼ to select [PICTURE MODE].
- 2) Press ◀▶ or the <ENTER> button.
  - The [PICTURE MODE] individual adjustment screen is displayed.
- 3) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[STANDARD]	The picture becomes suitable for moving images in general.
[DYNAMIC]	The light output is maximized for use in bright areas.
[BLACKBOARD]	The picture becomes suitable for projecting on a black board.
[WHITE BOARD]	The picture becomes suitable for projecting on a white board.
[CINEMA]*1	The picture becomes suitable for movie sources.
[NATURAL]*2	The picture becomes suitable for use in low-light areas.
[EASY SETTING]*3	When executing the EASY SETTING function, it will be the optimal hue for the projected image according to the projection environment.*4

\*1 Only for the movie-based signals.

\*2 Only for the still image signals.

\*3 When the projector leaves the factory, [EASY SETTING] does not appear. When execute the EASY SETTING function by setting [COLORBOARD] to [ON] in [EASY SETTING], [EASY SETTING] is added to the items.

\*4 If you use the projector in different environment, the screen may change. Please execute the EASY SETTING function again by setting [COLORBOARD] to [ON] in [EASY SETTING].

### [CONTRAST]

You can adjust the contrast of the colors.

- 1) Press ▲▼ to select [CONTRAST].
- 2) Press ◀▶ or the <ENTER> button.
  - The [CONTRAST] individual adjustment screen is displayed.
- 3) Press ◀▶ to adjust the level.

Operation	Adjustment	Adjustment range
Press the ▶ button.	Brightens the screen and makes the color of image deeper.	-32 ~ +32
Press the ◀ button.	Darkens the screen and makes the color of image lighter.	

#### Attention

- Adjust [BRIGHTNESS] first when you need to adjust [BRIGHTNESS] and [CONTRAST].

**[BRIGHTNESS]**

You can adjust the dark (black) part of the projected image.

- 1) Press ▲▼ to select [BRIGHTNESS].
- 2) Press ◀▶ or the <ENTER> button.
  - The [BRIGHTNESS] individual adjustment screen is displayed.
- 3) Press ◀▶ to adjust the level.

Operation	Adjustment	Adjustment range
Press the ▶ button.	Increases the brightness of the dark (black) parts of the screen.	-32 ~ +32
Press the ◀ button.	Reduces the brightness of the dark (black) parts of the screen.	

**[COLOR]**

(Only for movie-based signal input)

You can adjust the color saturation of the projected image.

- 1) Press ▲▼ to select [COLOR].
- 2) Press ◀▶ or the <ENTER> button.
  - The [COLOR] individual adjustment screen is displayed.
- 3) Press ◀▶ to adjust the level.

Operation	Adjustment	Adjustment range
Press the ▶ button.	Deepens colors.	-32 ~ +32
Press the ◀ button.	Weakens colors.	

**[TINT]**

(Only for NTSC/NTSC4.43 signal, when inputting movie-based signal to the <S-VIDEO IN> terminal or the <VIDEO IN> terminal.)

You can adjust the skin tone in the projected image.

- 1) Press ▲▼ to select [TINT].
- 2) Press ◀▶ or the <ENTER> button.
  - The [TINT] individual adjustment screen is displayed.
- 3) Press ◀▶ to adjust the level.

Operation	Adjustment	Adjustment range
Press the ▶ button.	Adjusts skin tone toward greenish color.	-32 ~ +32
Press the ◀ button.	Adjusts skin tone toward reddish purple.	

**[SHARPNESS]**

You can adjust the sharpness of the projected image.

- 1) Press ▲▼ to select [SHARPNESS].
- 2) Press ◀▶ or the <ENTER> button.
  - The [SHARPNESS] individual adjustment screen is displayed.
- 3) Press ◀▶ to adjust the level.

Operation	Adjustment	Adjustment range
Press the ▶ button.	Contours become sharper.	0 ~ +15
Press the ◀ button.	Contours become softer.	

**Note**

- [SHARPNESS] will be invalid when [DAYLIGHT VIEW] is set to [AUTO] or [ON].

**[COLOR TEMPERATURE]**

You can switch the color temperature if the white areas of the projected image are bluish or reddish.

- 1) Press ▲▼ to select [COLOR TEMPERATURE].
- 2) Press ◀▶ or the <ENTER> button.
  - The [COLOR TEMPERATURE] individual adjustment screen is displayed.
- 3) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[DEFAULT]	Factory default setting.
[HIGH]	Becomes a bluish image. Select this when the white areas of the projected image are reddish.
[LOW]	Becomes a reddish image. Select this when the white areas of the projected image are bluish.

**[IRIS]**

Aperture correction and signal compensation are performed automatically based on the image to result in an image of optimum contrast.

- 1) Press ▲▼ to select [IRIS].
- 2) Press ◀▶ or the <ENTER> button.
  - The [IRIS] individual adjustment screen is displayed.
- 3) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[OFF]	No correction.
[ON]	Corrects the aperture.

**[ADVANCED MENU]**

You can perform more advanced image adjustment.

- 1) Press ▲▼ to select [ADVANCED MENU].
- 2) Press the <ENTER> button.
  - The [ADVANCED MENU] screen is displayed.
- 3) Press ▲▼ to select one item among [CONTRAST R] ~ [BRIGHTNESS B].
- 4) Press ◀▶ or the <ENTER> button.
  - The individual adjustment screen of items are displayed.
- 5) Press ◀▶ to adjust the value.

Items	Operation	Adjustment	Adjustment range
[CONTRAST R]	Press the ► button.	Emphasizes red in highlight areas.	-32 ~ +32
	Press the ◀ button.	Deemphasizes red in highlight areas.	
[CONTRAST G]	Press the ► button.	Emphasizes green in highlight areas.	-32 ~ +32
	Press the ◀ button.	Deemphasizes green in highlight areas.	
[CONTRAST B]	Press the ► button.	Emphasizes blue in highlight areas.	-32 ~ +32
	Press the ◀ button.	Deemphasizes blue in highlight areas.	
[BRIGHTNESS R]	Press the ► button.	Emphasizes red in shadow areas.	-32 ~ +32
	Press the ◀ button.	Deemphasizes red in shadow areas.	
[BRIGHTNESS G]	Press the ► button.	Emphasizes green in shadow areas.	-32 ~ +32
	Press the ◀ button.	Deemphasizes green in shadow areas.	
[BRIGHTNESS B]	Press the ► button.	Emphasizes blue in shadow areas.	-32 ~ +32
	Press the ◀ button.	Deemphasizes blue in shadow areas.	



**[DAYLIGHT VIEW]**

You can correct the image to the optimal vividness even if it is projected under a bright light.

- 1) Press **▲▼** to select **[DAYLIGHT VIEW]**.
- 2) Press **◀▶** or the **<ENTER>** button.
  - The [DAYLIGHT VIEW] individual adjustment screen is displayed.
- 3) Press **◀▶** to switch the item.
  - The items will switch each time you press the button.

<b>[AUTO]</b>	Enables auto correction of [DAYLIGHT VIEW]. The brightness of the room is detected by the luminance sensor, and the vividness of the image is automatically corrected.
<b>[ON]</b>	Enables [DAYLIGHT VIEW].
<b>[OFF]</b>	Disables [DAYLIGHT VIEW].

**Note**

- [DAYLIGHT VIEW] cannot be set to [AUTO] when the [PROJECTOR SETUP] menu → [PROJECTION METHOD] is set to [REAR/DESK] or [REAR/CEILING].
- The [AUTO] mode may not function properly if an object is placed on the top of the projector.

**[DIGITAL CINEMA REALITY]**

(Only for movie-based signal input)

You can improve the vertical resolution of 2-2 and 2-3 pull down video.

This function is available only with the following signal inputs.

525i (480i), 625i (576i), 1125 (1080)/60i, 1125 (1080)/50i, S-VIDEO signal, VIDEO signal.

- 1) Press **▲▼** to select **[DIGITAL CINEMA REALITY]**.
- 2) Press **◀▶** or the **<ENTER>** button.
  - The [DIGITAL CINEMA REALITY] individual adjustment screen is displayed.
- 3) Press **◀▶** to switch the item.
  - The items will switch each time you press the button.

<b>[OFF]</b>	Disables [DIGITAL CINEMA REALITY].
<b>[ON]</b>	Enables [DIGITAL CINEMA REALITY].

**[NOISE REDUCTION]**

(Only when the <S-VIDEO IN >/<VIDEO IN> terminal is selected)

You can reduce noises when the input image is degraded and noise is occurring in the image signal.

- 1) Press **▲▼** to select **[NOISE REDUCTION]**.
- 2) Press **◀▶** or the **<ENTER>** button.
  - The [NOISE REDUCTION] individual adjustment screen is displayed.
- 3) Press **◀▶** to switch the item.
  - The items will switch each time you press the button.

<b>[OFF]</b>	Disables [NOISE REDUCTION].
<b>[ON]</b>	Enables [NOISE REDUCTION].

**Attention**

- When this is set for an input signal with less noise, the image may look different from what it originally was. In such a case, set it to [OFF].

**[TV-SYSTEM]**

(Only when the <S-VIDEO IN >/<VIDEO IN> terminal is selected)

The projector will automatically detect the input signal, but you can set the color system manually when an unstable signal is input. Set the color system matching the input signal.

- 1) Press ▲▼ to select [TV-SYSTEM].
- 2) Press ◀▶ or the <ENTER> button.
  - The [TV-SYSTEM] individual adjustment screen is displayed.
- 3) Press ◀▶ to select the color system.
  - The items will switch each time you press the button.
  - Select among [AUTO], [NTSC], [NTSC4.43], [PAL], [PAL-M], [PAL-N], [PAL60] and [SECAM].
  - Set it to [AUTO] normally. (Setting [AUTO] will automatically select [NTSC], [NTSC4.43], [PAL], [PAL-M], [PAL-N], [SECAM] or [PAL60].)

**[RGB/YPbPr] / [RGB/YCbCr]**

Set it to [AUTO] normally. If images are not displayed correctly when this is set to [AUTO], set either [RGB], [YCbCr] or [YPbPr] in accordance with the input signal.

- 1) Press ▲▼ to select [RGB/YPbPr] or [RGB/YCbCr].
- 2) Press ◀▶ or the <ENTER> button.
  - The [RGB/YPbPr] or [RGB/YCbCr] individual adjustment screen is displayed.
- 3) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[AUTO]	The sync signal automatically selects the signal [RGB] / [YPbPr] / [YCbCr].
[RGB]	Select it for RGB signal input.
[YPbPr]	Select it for YPbPr signal input.
[YCbCr]	Select it for YCbCr signal input.

**When the <COMPUTER 1 IN> terminal is selected**

- For 525i (480i), 625i (576i), 525p (480p) and 625p (576p) input  
Select [AUTO], [RGB] or [YCbCr].
- For other movie-based signal input  
Select [AUTO], [RGB] or [YPbPr].

**When the <HDMI IN > terminal is selected**

- For 525p (480p) and 625p (576p) input  
Select [AUTO], [RGB] or [YCbCr].
- For other movie-based signal input  
Select [AUTO], [RGB] or [YPbPr].

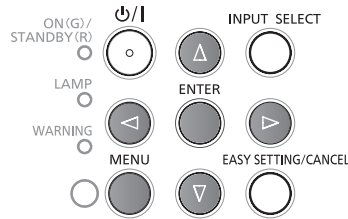
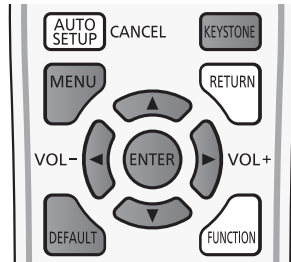
**Note**

- Refer to "List of compatible signals" (➔ page 141) for the signal details.
- The signal selection may not function properly depending on connected devices.

## [POSITION] menu

On the menu screen, select [POSITION] from the main menu, and select an item from the sub-menu. Refer to "Navigating through the menu" (➔ page 56) for the operation of the menu screen.

- After selecting the item, press ▲▼◀▶ to set.



### [KEYSTONE]

You can correct the trapezoidal distortion that occurs when the projector is installed tilted or when the screen is tilted.

- 1) Press ▲▼ to select [KEYSTONE].
- 2) Press the <ENTER> button.
  - The [KEYSTONE] screen is displayed.
- 3) Press ▲▼ to select one item to adjust.

[KEYSTONE]	Adjusts when the trapezoid of the projected image is distorted.
[CORNER CORRECTION]	Adjusts when the four corners of the projected image are distorted.

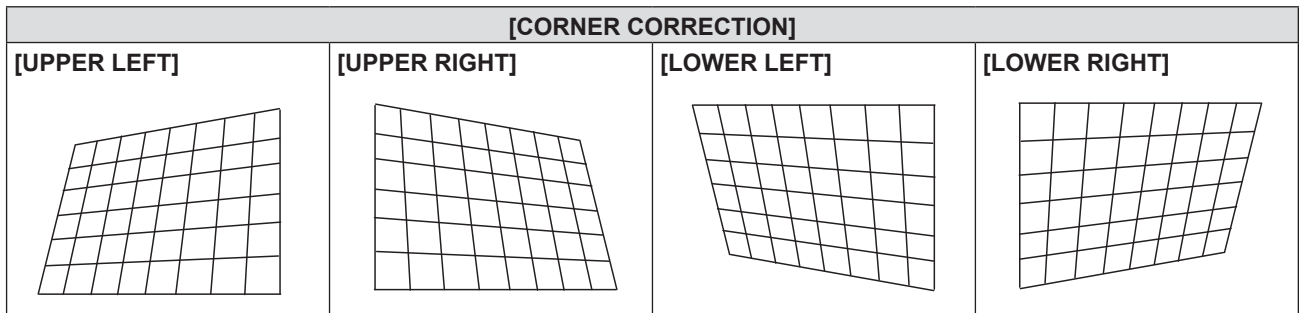
### [KEYSTONE]

- 1) Press ▲▼ to select [KEYSTONE].
- 2) Press the <ENTER> button.
  - The [KEYSTONE] screen is displayed.
- 3) Press ▲▼ to select [KEYSTONE].
- 4) Press the <ENTER> button.
  - The [KEYSTONE] individual adjustment screen is displayed.
- 5) Press ▲▼◀▶ to adjust the item.

Items	Operation	Adjustment	Adjustment range
[H]	Press the ▶ button.	Adjusts the right of the keystone.	-60 ~ +60
	Press the ◀ button.	Adjusts the left of the keystone.	
[V]	Press the ▲ button.	Adjusts the upper of the keystone.	-80 ~ +80
	Press the ▼ button.	Adjusts the bottom of the keystone.	

**[CORNER CORRECTION]**

- 1) Press ▲▼ to select [KEYSTONE].
- 2) Press the <ENTER> button.
  - The [KEYSTONE] screen is displayed.
- 3) Press ▲▼ to select [CORNER CORRECTION].
- 4) Press the <ENTER> button.
  - The [CORNER CORRECTION] screen is displayed.
- 5) Press ▲▼ to select the item to adjust, then press the <ENTER> button.
  - The [CORNER CORRECTION] individual adjustment screen is displayed.
- 6) Press ▲▼◀▶ to adjust.



**Note**

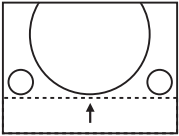
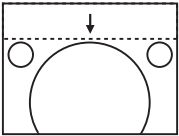
- Either [KEYSTONE] or [CORNER CORRECTION] setting value is valid. When [KEYSTONE] or [CORNER CORRECTION] adjustment is finished, you adjust the other one, the adjusted value will be reset.
- Press the <KEYSTONE> button on the remote control when the [KEYSTONE] or [CORNER CORRECTION] screen is displaying, it will switch to the other adjustment screen.
- When the [CORNER CORRECTION] individual adjustment screen is displaying, the individual adjustment screen of the next corner can also be displayed by pressing the <ENTER> button.
- Correcting up to  $\pm 40^\circ$  for the tilt in the vertical direction and  $\pm 30^\circ$  for the tilt in the horizontal are available for adjustments with [KEYSTONE]. However, the image quality will degrade and it will get harder to focus with more correction. Install the projector so that the correction will be as small as possible.
- Screen size will also change when [KEYSTONE] is used to perform various adjustments.
- Aspect ratio of the image size may shift depending on the correction.

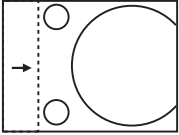
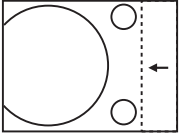
**[SHIFT]**

(Only for computer signal input)

Move the image position vertically or horizontally if the image position projected on the screen is shifted even when the relative position of the projector and the screen is installed correctly.

- 1) Press ▲▼ to select [SHIFT].
- 2) Press the <ENTER> button.
  - The [SHIFT] screen is displayed.
- 3) Press ▲▼◀▶ to adjust the position.

Orientation	Operation	Adjustment	
Vertical (up and down) adjustment.	Press the ▲ button.	The image position moves up.	
	Press the ▼ button.	The image position moves down.	

Horizontal (right and left) adjustment.	Press the ► button.	The image position moves to the right.	
	Press the ◀ button.	The image position moves to the left.	

**Note**

- Depending on the input signal, if the adjustment of [SHIFT] exceeds the effective adjustment range of the input signal, the position of the image cannot be changed. Please adjust [SHIFT] within an effective adjustment range.

**[DOT CLOCK]**

(Only for computer (RGB) signals input)

Use this function to adjust and minimize the effect of interference caused by projection of patterns consisting of vertical stripes. The projection of the striped pattern may cause cyclic patterns (noise). Adjust so that the amount of interference is at a minimum. You can adjust the dot clock of image.

- 1) Press ▲▼ to select [DOT CLOCK].
- 2) Press ◀▶ or the <ENTER> button.
  - The [DOT CLOCK] individual adjustment screen is displayed.
- 3) Press ◀▶ to adjust the value.
  - The adjustment values are [-32] to [+32].

**Attention**

- Set it before adjusting [CLOCK PHASE].

**[CLOCK PHASE]**

(Only for computer (RGB) signals input)

You can adjust to achieve an optimal image when there is a flickering image or smeared outlines.

- 1) Press ▲▼ to select [CLOCK PHASE].
- 2) Press ◀▶ or the <ENTER> button.
  - The [CLOCK PHASE] individual adjustment screen is displayed.
- 3) Press ◀▶ to adjust the value.
  - The adjustment values are [-16] to [+16]. Adjust so that the amount of interference is at a minimum.

**Note**

- Certain signals may not be adjustable.
- Optimal value may not be achieved if the output from the input computer is unstable.
- To project a signal with dot clock frequency with 162 MHz or higher, noise may not disappear even if [CLOCK PHASE] is adjusted.
- [CLOCK PHASE] cannot be adjusted when a digital signal is input.

**[OVER SCAN]**

Use this function when characters or pictures are cropped near the periphery of the projected image.

- 1) Press ▲▼ to select [OVER SCAN].
- 2) Press ◀▶ or the <ENTER> button.
  - The [OVER SCAN] individual adjustment screen is displayed.
- 3) Press ◀▶ to adjust the level.
  - The adjustment values are [0] to [+3].

**Note**

- It is unavailable for still image computer (RGB) signals, still image HDMI signals and [NETWORK/USB].

**[ASPECT]**

You can switch the aspect ratio of the image.

The aspect ratio is switched within the screen range selected in [SCREEN SETTING]. Set [SCREEN SETTING] first.  
(➔ page 72)

[SCREEN SETTING] is only for PT-VW355N.

- 1) Press ▲▼ to select [ASPECT].
- 2) Press ◀▶ or the <ENTER> button.
  - The [ASPECT] individual adjustment screen is displayed.
- 3) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

<b>[NORMAL]</b>	Displays images without changing the aspect ratio of the input signals.
<b>[AUTO]*1</b>	The aspect ratio is automatically switched to the optimum aspect ratio when an aspect ratio identifier is included in the input signal.
<b>[WIDE]</b>	Displays images with the aspect ratio converted to 16:9 when standard signals**2 are input. Display images without changing the aspect ratio when wide-screen signals**3 are input.
<b>[H FIT]</b>	Displays images using the entire width of the screen. When signals have the aspect ratio vertically longer than the aspect ratio of the screen selected in [SCREEN FORMAT]**4, the images are displayed with the top and bottom parts cut off.
<b>[V FIT]</b>	Displays the height of the panel pixels vertically without changing the aspect ratio when wide-screen signals are input. When signals have the aspect ratio horizontally longer than the aspect ratio of the screen, the images are displayed with the right and left parts cut off.
<b>[FULL]</b>	The image is projected using all the panel (screen) pixels. The input signals are converted to the aspect ratio of the panel (screen).
<b>[NATIVE]</b>	Displays images without changing the resolution of the input signals.

\*1 Only for Video (NTSC) and 480i (YCbCr) signals input

\*2 Standard signals are input signals with an aspect ratio of 4:3 or 5:4.

\*3 Wide-screen signals are input signals with an aspect ratio of 16:10, 16:9 or 15:9.

\*4 [SCREEN FORMAT] is only for PT-VW355N.

**Note**

- The image size may be switched abnormally when [AUTO] is selected, please set to [NORMAL] or [WIDE] according to the input signal.
- Some size modes are not available for certain types of input signals.
- If an aspect ratio which is different from the aspect ratio for the input signals is selected, the images will appear differently from the originals. Be careful of this when selecting the aspect ratio.
- If using the projector in places such as cafes or hotels to display programs for a commercial purpose or for public presentation, note that adjusting the aspect ratio or using the zoom function to change the screen images may be an infringement of the rights of the original copyright owner for that program under copyright protection laws. Take care when using a function of the projector such as the aspect ratio adjustment and zoom function.
- If conventional (normal) 4:3 images which are not wide-screen images are displayed on a wide screen, the edges of the images may not be visible or they may become distorted. Such images should be viewed as with an aspect ratio of 4:3 in the original format intended by the creator of the images.

**[FRAME LOCK]**

(Only for still image signals input)

This setting is available for specific computer signals. Set when the movie is distorted.

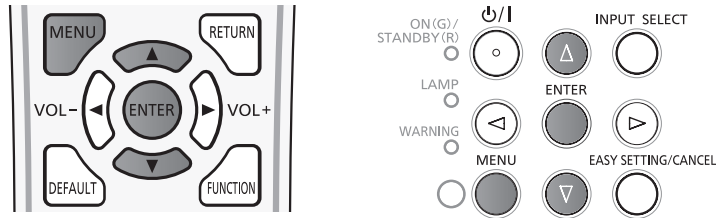
- 1) Press ▲▼ to select [FRAME LOCK].
- 2) Press ◀▶ or the <ENTER> button.
  - The [FRAME LOCK] individual adjustment screen is displayed.
- 3) Press ◀▶ to switch the [FRAME LOCK].
  - The items will switch each time you press the button.

<b>[OFF]</b>	Disables the frame lock.
<b>[ON]</b>	Enables the frame lock.

## [LANGUAGE] menu

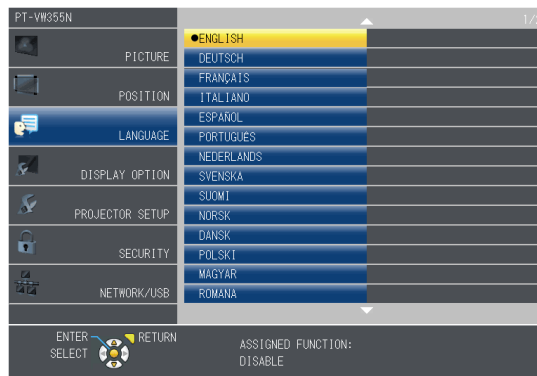
On the menu screen, select [LANGUAGE] from the main menu, and select an item from the sub-menu. Refer to "Navigating through the menu" (➔ page 56) for the operation of the menu screen.

- Press ▲▼ to select a language, and press <ENTER> button to set.



### [LANGUAGE]

You can select the language of the on-screen display.



- Various menus, settings, adjustment screens, control button names, etc., are displayed in the selected language.
- The language can be changed to English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Finnish, Norwegian, Danish, Polish, Hungarian, Romanian, Czech, Russian, Turkish, Arabic, Kazakh, Vietnamese, Chinese, Korean, Japanese and Thai.

#### Note

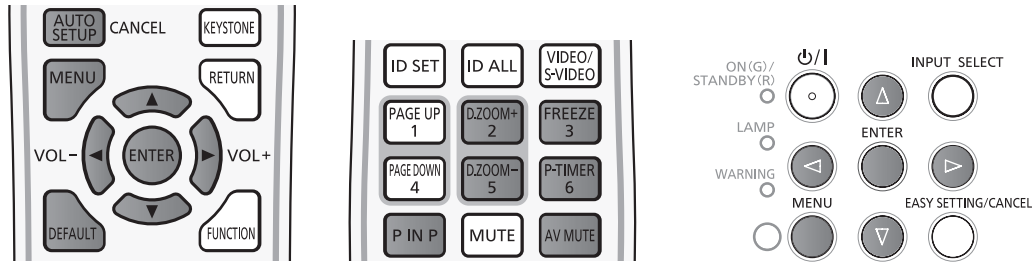
- The on-screen display language of the projector is set to English by default and when [INITIALIZE ALL] (➔ page 84) in [PROJECTOR SETUP] is executed.



## [DISPLAY OPTION] menu

On the menu screen, select [DISPLAY OPTION] from the main menu, and select an item from the sub-menu. Refer to "Navigating through the menu" (→ page 56) for the operation of the menu screen.

• After selecting the item, press ▲▼◀▶ to set.



### [ON-SCREEN DISPLAY]

Set the on-screen display and position.

#### [INPUT GUIDE]

Set whether to display the input guide when switching the input source.

- 1) Press ▲▼ to select [ON-SCREEN DISPLAY].
- 2) Press the <ENTER> button.
  - The [ON-SCREEN DISPLAY] screen is displayed.
- 3) Press ▲▼ to select [INPUT GUIDE].
- 4) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[DETAILED]	Displays the name of input terminal and input signal graphically.
[OFF]	Disables the input guide.
[SIMPLE]	Displays the name of input terminal and input signal.

#### [OSD POSITION]

Set the position of the menu screen (OSD).

- 1) Press ▲▼ to select [ON-SCREEN DISPLAY].
- 2) Press the <ENTER> button.
  - The [ON-SCREEN DISPLAY] screen is displayed.
- 3) Press ▲▼ to select [OSD POSITION].
- 4) Press ◀▶ to switch the item.
  - The items will switch each time you press the button as following:  
[CENTER] → [UPPER LEFT] → [UPPER RIGHT] → [LOWER LEFT] → [LOWER RIGHT] → [CENTER] → ...

#### [WARNING MESSAGE]

Set the display/hide of the warning message.

- 1) Press ▲▼ to select [ON-SCREEN DISPLAY].
- 2) Press the <ENTER> button.
  - The [ON-SCREEN DISPLAY] screen is displayed.
- 3) Press ▲▼ to select [WARNING MESSAGE].

4) Press ◀▶ to switch the item.

- The items will switch each time you press the button.

[OFF]	Hides the warning message.
[ON]	Displays the warning message.

## [HDMI SIGNAL LEVEL]

Switch the setting when the external equipment is connected to the <HDMI IN> terminal of the projector and the image is not projected correctly.

1) Press ▲▼ to select [HDMI SIGNAL LEVEL].

2) Press ◀▶ to switch the item.

- The items will switch each time you press the button.

[AUTO]	Sets the signal level automatically.
[64-940]	Select when the HDMI terminal of an external device (such as a blu-ray player) is connected to the <HDMI IN> terminal.
[0-1023]	Select when the DVI terminal output of an external device (such as a computer) is connected to the <HDMI IN> terminal via a conversion cable or similar cable. Select also when the HDMI terminal output of a computer or other device is connected to the <HDMI IN> terminal.

### Note

- The optimal setting varies depending on the output setting of the connected external device. Refer to the operation instruction of the external device regarding the output of the external device.
- The displayed signal level is assumed when the input is 30 bits.

## [CLOSED CAPTION SETTING]

(Only for NTSC, 480i YCbCr input)

Set the closed caption.

### Selecting the closed caption display

1) Press ▲▼ to select [CLOSED CAPTION SETTING].

2) Press the <ENTER> button.

- The [CLOSED CAPTION SETTING] screen is displayed.

3) Press ▲▼ to select [CLOSED CAPTION].

4) Press ◀▶ to switch the item.

- The items will switch each time you press the button.

[OFF]	Closed captions are not displayed.
[ON]	Closed captions are displayed.

- When [ON] is selected, proceed to Step 5).

5) When the confirmation is displayed, select [OK], and press the <ENTER> button.

### Setting the closed caption mode

1) Press ▲▼ to select [CLOSED CAPTION SETTING].

2) Press the <ENTER> button.

- The [CLOSED CAPTION SETTING] screen is displayed.

3) Press ▲▼ to select [MODE].

4) Press ◀▶ to switch the item.

- The items will switch each time you press the button.

[CC1]	Displays CC1 data.
[CC2]	Displays CC2 data.

[CC3]	Displays CC3 data.
[CC4]	Displays CC4 data.

**Note**

- Closed caption is a function that displays text information of video signals mainly used in North America. Captions may not be displayed depending on the connected devices or contents being played back.
- [CLOSED CAPTION SETTING] can only be selected if an NTSC or 480i YCbCr signal is input.
- If [CLOSED CAPTION SETTING] is set to [ON], the brightness of image may be changed according to the external devices or the used content of the closed caption corresponding connection.
- If a closed caption signal of the selected mode is input, the text is not displayed even when the [SECURITY] menu → [TEXT DISPLAY] (➔ page 86) is set to [ON].
- Closed captions are not displayed when the menu screen is displayed.

**[SCREEN SETTING]**

(Only for PT-VW355N)

Set the screen size.

When changing the aspect of a projected image, correct to the optimum image position for the set screen. Set as necessary for the screen in use.

- 1) Press ▲▼ to select [SCREEN SETTING].
- 2) Press the <ENTER> button.
  - The [SCREEN SETTING] screen is displayed.
- 3) Press ▲▼ to select [SCREEN FORMAT].
- 4) Press ◀▶ to switch the [SCREEN FORMAT] item.
  - The items will switch each time you press the button.

[SCREEN FORMAT]	Description	Range when [SCREEN POSITION] is selected
[16:10]	The projected aspect ratio is 16:10.	Cannot be adjusted.
[16:9]	The projected aspect ratio is 16:9.	Adjusts the vertical position.

- 5) Press ▲▼ to select [SCREEN POSITION].
  - If [SCREEN FORMAT] is set to [16:10], adjustment of [SCREEN POSITION] is not available.
- 6) Press ◀▶ to adjust the [SCREEN POSITION].
  - The items will switch each time you press the button.

[HIGH]	The image which aspect ratio is 16:9 will displayed at the top.
[CENTER]	The image which aspect ratio is 16:9 will displayed in the center.
[LOW]	The image which aspect ratio is 16:9 will displayed at the bottom.

**[STARTUP LOGO]**

Set the logo display when the power is turned on.

- 1) Press ▲▼ to select [STARTUP LOGO].
- 2) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[DEFAULT LOGO]	Displays the Panasonic logo.
[USER LOGO]	Displays the image registered by the user.
[OFF]	Disables the startup logo display.

**Note**

- The startup logo will disappear in approximately 30 seconds.
- To create/register the [USER LOGO] image, use "Logo Transfer Software" included in the supplied CD-ROM.
- If you do not register the image of the [USER LOGO], the startup logo will not be displayed even if the [STARTUP LOGO] is set to [USER LOGO].

## [AUTO SETUP SETTING]

Set the automatic execution of AUTO SETUP.

The screen display position or signal level can be adjusted automatically without pressing the <AUTO SETUP/CANCEL> button on the remote control on each occasion if you input unregistered signals frequently at meetings, etc.

- 1) Press ▲▼ to select [AUTO SETUP SETTING].
- 2) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[AUTO]	Enables the auto setup function when switching signals.
[BUTTON]	Enables the auto setup function only when the <AUTO SETUP/CANCEL> button is pressed.

## [SIGNAL SEARCH]

When the power is turned on, this function automatically detects the terminal which signals are input and sets the function to switch.

- 1) Press ▲▼ to select [SIGNAL SEARCH].
- 2) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[ON]	Enables input detection automatically.
[OFF]	Disables input detection automatically.

### Note

- If the [SIGNAL SEARCH] is set to [ON] when there is no signal input, press the <AUTO SETUP/CANCEL> button on the remote control, this function automatically detects the terminal to which signals are input and then switches.

## [BACK COLOR]

Set the display of the projected screen when there is no signal input.

- 1) Press ▲▼ to select [BACK COLOR].
- 2) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[BLUE]	Displays the entire projection area in blue.
[BLACK]	Displays the entire projection area in black.
[DEFAULT LOGO]	Displays the Panasonic logo.
[USER LOGO]	Displays the image registered by the user.

### Note

- To create/register the [USER LOGO] image, use "Logo Transfer Software" included in the supplied CD-ROM.
- If you do not register the image of the [USER LOGO], the projected image will be displayed in black even if the [BACK COLOR] is set to [USER LOGO].

## [WIDE MODE]

Using this function when displays the incorrect signals input.

- 1) Press ▲▼ to select [WIDE MODE].
- 2) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[AUTO]	Displays by judging the signal automatically. Set to this mode normally.
[ON]	When input the wide signal.
[OFF]	When input the 4:3 signal.

## [SXGA MODE]

This function is used if the whole projected image is not displayed when SXGA signal is input. Set it to [SXGA] normally.

- 1) Press ▲▼ to select [SXGA MODE].
- 2) Press ◀▶ to switch the item.

- The items will switch each time you press the button.

[SXGA]	Normal setting.
[SXGA +]	Set this when the edge of the image is cropped.

## [P-TIMER]

Set and operate the presentation timer function.

1) Press ▲▼ to select [P-TIMER].

2) Press the <ENTER> button.

- The [P-TIMER] screen is displayed.

[MODE]	Switches the elapsed time between [COUNT UP] and [COUNT DOWN].
[TIMER]	Sets the finish time of timer when [COUNT DOWN] is selected.
[START] / [STOP] / [RESTART]	Operates the timer.
[RESET]	Resets the count.
[EXIT]	[P-TIMER] is finished.

## Setting [MODE]

1) Press ▲▼ to select [MODE].

2) Press ◀▶ to switch the item.

- The items will switch each time you press the button.

[COUNT UP]	Displays the elapsed time since the count was started.
[COUNT DOWN]	Displays the remaining time of the time set by [TIMER].

## Setting the countdown timer

1) Press ▲▼ to select [TIMER].

2) Press ◀▶ to set the timer.

- The time can be set in 1-minute increments from 1 to 180 minutes.
- The factory default value is 10 minutes.

## Note

- [TIMER] is available only when [MODE] is set to [COUNT DOWN].

## The operation of [P-TIMER]

1) Press ▲▼ to select one item.

[START]	The count is started.
[STOP]	The count is stopped.
[RESTART]	The count is resumed.
[RESET]	The count is reset.

2) Press the <ENTER> button.

- When you select [START] or [RESTART], the remaining time or the elapsed time will be displayed in the lower right of the projected image.
- When you select [STOP], the remaining time or the elapsed time while stopping the counting will be displayed in the lower right of the projected image.

## Note

- You can also use the P-TIMER function by pressing the <P-TIMER> button on the remote control (➡ page 54).
- If the elapsed time or remaining time is displaying, the text will not be displayed even when the [SECURITY] menu → [TEXT DISPLAY] (➡ page 86) is set to [ON].
- The elapsed time or remaining time will not be displayed when the menu screen is displaying.
- The start time will be "000:00" when [MODE] is set to [COUNT UP].
- When [MODE] is set to [COUNT DOWN], the start time becomes the value set at [TIMER].
- The time gauge turns clockwise when [COUNT UP] is set, and turns counterclockwise when [COUNT DOWN] is set.

## Ending the presentation timer

1) Press ▲▼ to select [P-TIMER].

- 2) Press the <ENTER> button.
  - The [P-TIMER] screen is displayed.
- 3) Press ▲▼ to select [EXIT].
- 4) Press the <ENTER> button.

## [P IN P]

(Only for PT-VW355N)

Locate a separate, small sub screen in the main screen to project two images simultaneously.

- 1) Press ▲▼ to select [P IN P].
- 2) Press the <ENTER> button.
  - The [P IN P] screen is displayed.

## [MODE]

- 1) Press ▲▼ to select [MODE].
- 2) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[OFF]	P IN P function is disabled.
[SIDE BY SIDE]	Sub screen is displayed at the side of the main screen.
[P IN P]	Sub screen is displayed in the main screen.

## [SUBPICTURE SIZE]

If [MODE] is set to [P IN P], you can change the size of the sub screen.

- 1) Press ▲▼ to select [SUBPICTURE SIZE].
- 2) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[SMALL]	The size of the sub screen is small (30% of the panel resolution).
[MIDDLE]	The size of the sub screen is middle (40% of the panel resolution).
[LARGE]	The size of the sub screen is large (50% of the panel resolution).

## [SUBPICTURE POSITION]

If [MODE] is set to [P IN P], you can change the position of the sub screen.

- 1) Press ▲▼ to select [SUBPICTURE POSITION].
- 2) Press ◀▶ to switch the item.
  - The items will switch each time you press the button as following:  
[LOWER RIGHT] → [LOWER LEFT] → [UPPER LEFT] → [UPPER RIGHT] → [LOWER RIGHT] →...

### Note

- The P IN P function may be unavailable for some signals being input or terminals being selected. Refer to "Two-window display combination list" (➔ page 140) for details.
- The main window setting values are applied to image adjustment values such as [PICTURE MODE] and [COLOR TEMPERATURE].

## [OTHER FUNCTIONS]

You can perform some of the remote control button operations from the sub-menu.

- 1) Press ▲▼ to select [OTHER FUNCTIONS].
- 2) Press the <ENTER> button.
  - The [OTHER FUNCTIONS] screen is displayed.
- 3) Press ▲▼ to select one item.

[AUTO SETUP]	For details, refer to "Using the AUTO SETUP function" (➔ page 49).
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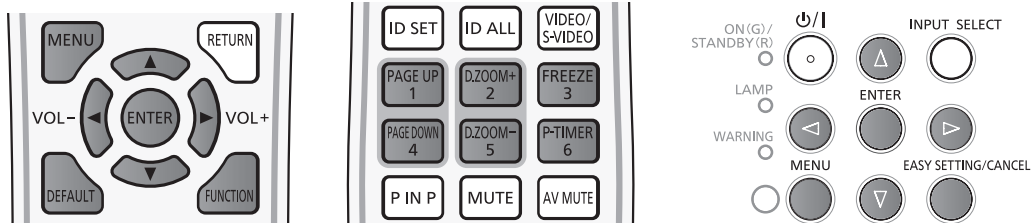
[FREEZE]	The projected image is paused temporarily and the sound stopped regardless of the playback of the external equipment. To release this function, press the <RETURN> button or the <FREEZE> button on the remote control.
[AV MUTE]	Turn off audio and image when the projector is not used for a certain period of time. To release this function, press the <RETURN> button or the <AV MUTE> button on the remote control.
[DIGITAL ZOOM]	For details, refer to "Using the DIGITAL ZOOM function" (➔ page 52).

4) Press the <ENTER> button.

## [PROJECTOR SETUP] menu

On the menu screen, select [PROJECTOR SETUP] from the main menu, and select an item from the sub-menu. Refer to "Navigating through the menu" (➔ page 56) for the operation of the menu screen.

- After selecting the item, press ▲▼◀▶ to set.



### [STATUS]

You can check the using status of the projector.

1) Press ▲▼ to select [STATUS].

2) Press the <ENTER> button.

- The [STATUS] screen is displayed.

[SIGNAL]	[NAME]	Displays the name of input signal.
	[FREQUENCY]	Displays the scanning frequency of input signal.
[RUNTIME]*1	[PROJECTOR]	Displays the current usage time of projector.
	[LAMP (ET-LAV300)*2]	Displays the model No. of the replacement lamp unit for this projector.
	[NORMAL]	Displays the lamp runtime when [LAMP POWER] is set to [NORMAL] by actual time.
	[ECO]	Displays the lamp runtime when [LAMP POWER] is set to [ECO] by actual time.
[SERIAL NUMBER]	[PROJECTOR]	Displays the serial number of the projector.

\*1 The following conversion is required to calculate the rough estimate for lamp replacement.

Formula for lamp replacement time (rough estimate)	
$A \times 1 + B \times 5/7$	
• A :	Runtime which is displayed in [STATUS] screen - [RUNTIME] - [LAMP] - [NORMAL]
• B :	Runtime which is displayed in [STATUS] screen - [RUNTIME] - [LAMP] - [ECO]

\*2 The model No. of the optional lamp unit is subject to change without prior notice.

#### Note

- If you attach a lamp unit used in a projector of a model different from the projector (PT-VW355N, PT-VX425N) to the projector, or when the lamp unit used in the projector to a projector of a different model, the [RUNTIME] displayed in [STATUS] may differ from the actual time.

### [COMPUTER2 SELECT]

Set whether to use the <COMPUTER 2 IN/1 OUT> terminal.

1) Press ▲▼ to select [COMPUTER2 SELECT].

2) Press ◀▶ to switch the item.

- The items will switch each time you press the button.

[COMPUTER2 IN]	When input the computer signal.
[COMPUTER1 OUT]	Outputs the signal which have been input <COMPUTER 1 IN> terminal.

#### Note

- The [COMPUTER2 SELECT] will be unavailable when [COMPUTER2] is selected as input source.



## [PROJECTOR ID]

The projector has an ID number setting function that can be used when multiple projectors are used side by side to enable simultaneous control or individual control via a single remote control.

1) Press ▲▼ to select [PROJECTOR ID].

2) Press the <ENTER> button.

- The [PROJECTOR ID] screen is displayed.

3) Press ▲▼ to select a projector ID.

- Select one from [ALL], and [1] to [6].

[ALL]	Select when controlling projectors without specifying an ID number.
[1] - [6]	Select when specifying an ID number to control individual projector.

4) Press the <ENTER> button to set it.

- [PROJECTOR ID] is set.

### Note

- To specify an ID number for individual control, the ID number of a remote control must match the ID number of the projector.
- When the ID number is set to [ALL], the projector will operate regardless of the ID number specified during remote control or computer control.  
If multiple projectors are set up side by side with ID set to [ALL], they cannot be controlled separately from the projectors with other ID numbers.
- Refer to “Setting the ID number of the remote control” (➔ page 54) for how to set the ID number on the remote control.

## [INITIAL START UP]

Set the method of start up when the power cord plugged into the AC outlet.

1) Press ▲▼ to select [INITIAL START UP].

2) Press ◀▶ to switch the item.

- The items will switch each time you press the button.

[LAST MEMORY]	Starts in the condition that before disconnected the power cord or turn off the breaker.
[STANDBY]	Starts up in the standby mode.
[ON]	Starts the projection immediately.

## [PROJECTION METHOD]

Set the projection method in accordance with the installation status of the projector.

Change the projection method if the screen display is upside down or inverted.

1) Press ▲▼ to select [PROJECTION METHOD].

2) Press ◀▶ to switch the projection method.

- The items will switch each time you press the button.

[FRONT/DESK]	When installing the projector on the desk, etc., in front of the screen.
[FRONT/CEILING]	When installing the projector in front of the screen with the Ceiling Mount Bracket (optional).
[REAR/DESK]	When installing the projector on the desk, etc. behind the screen (with a translucent screen).
[REAR/CEILING]	When installing the projector behind the screen (with a translucent screen) with the Ceiling Mount Bracket (optional).

## [HIGH ALTITUDE MODE]

Change the setting according to the altitude in which you use the projector.

1) Press ▲▼ to select [HIGH ALTITUDE MODE].

2) Press ◀▶ to switch the item.

- The items will switch each time you press the button.

[OFF]	When using the projector in the elevation of below 1 400 m.
[HIGH1]	When using the projector in the elevation of above 1 400 m and below 2 000 m.
[HIGH2]	When using the projector in the elevation of above 2 000 m and below 2 700 m.

**Note**

- It is set to [OFF] when using the projector in the elevation of below 1 400 m. It is set to [HIGH1] when using the projector in the elevation of above 1 400 m and below 2 000 m. It is set to [HIGH2] when using the projector in the elevation of above 2 000 m and below 2 700 m. Failure to do so may shorten the life of the internal parts and result in malfunctions.
- Do not set the projector in the elevation of 2 700 m or above, otherwise it may shorten the life of the internal parts and result in malfunctions.
- When it is set to [HIGH1] or [HIGH2], the fan noise becomes louder and fan speed increases.

**[LAMP POWER]**

Switch the brightness of the lamp according to the operating environment of the projector or the purpose.

1) Press ▲▼ to select [LAMP POWER].

2) Press ◀▶ to switch the item.

- The items will switch each time you press the button.

[NORMAL]	Select when high luminance is required.
[ECO]	Select when high luminance is not required.

**Note**

- Set it to [ECO] rather than [NORMAL] when you want to reduce power consumption, extend the life of lamp and reduce operation noise.

**[ECO MANAGEMENT]**

This function optimizes lamp power according to the operating status to reduce power consumption.

1) Press ▲▼ to select [ECO MANAGEMENT].

2) Press the <ENTER> button.

- The [ECO MANAGEMENT] screen is displayed.

3) Press ▲▼ to select one item.

**Setting [AUTO POWER SAVE] in step 3)**

Set whether or not to enable the three functions, [AMBIENT LIGHT DETECTION], [SIGNAL DETECTION] and [AV MUTE DETECTION].

**Note**

- [AUTO POWER SAVE] cannot be set when the [LAMP POWER] is set to [ECO].

4) Press ◀▶ to switch the [AUTO POWER SAVE].

[ON]	Enables power-saving mode.
[OFF]	Disables power-saving mode.

5) Press ▲▼ to select one item.

[AMBIENT LIGHT DETECTION]	Adjusts the lamp power according to the ambient brightness.
[SIGNAL DETECTION]	Drops the lamp power when no signal is input.
[AV MUTE DETECTION]	Drops the lamp power in the AV mute mode.

6) Press ◀▶ to switch the item.

- The items will switch each time you press the button.

[ON]	Enables above setting.
[OFF]	Disables above setting.

**Note**

- Lamp power cannot reduced automatically in the following cases:
  - When [LAMP POWER] is set to [ECO]
  - When the lamp lighting is just completed or the setting of [LAMP POWER] is just completed, etc..
- When [AUTO POWER SAVE] is set to [OFF], [AMBIENT LIGHT DETECTION], [SIGNAL DETECTION] and [AV MUTE DETECTION] cannot be set.
- [AMBIENT LIGHT DETECTION] will not work correctly when placing some objects on the ambient luminance sensor.

### Setting [POWER MANAGEMENT] in step 3)

Set the operation as following if there is no signal input.

- 1) Press ▲▼ to select [POWER MANAGEMENT].
- 2) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[SHUT DOWN]	The countdown timer is displayed after 30 seconds without input signal. The projection lamp is turned off and cooled down when reached the set time, then the projector enter into standby status.
[OFF]	Power management function is off.
[READY]	The countdown timer is displayed after 30 seconds without input signal. The projection lamp turns off and cools down when reaching the set time, meanwhile the projector is in the power management mode. The projection lamp will be turned on if the input signal is reconnected or any button is pressed.

### Setting [TIMER]

The timer can be set to 5-120 minutes. The increment is 5 minutes.

- 1) Press ▲▼ to select [TIMER].
- 2) Press ◀▶ to set the timer (5-120 MIN.).
  - The time will switch each time you press the button.

#### Note

- The factory default setting for [TIMER] is [15 MIN.].

### Setting [STANDBY MODE] in step 3)

Set the operation mode during standby. The default setting is [ECO] that keeps power consumption low during standby. When the network function or the serial communication function is used during standby, set to [NORMAL].

- 1) Press ▲▼ to select [STANDBY MODE].
- 2) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[ECO]	Select this item to reduce power consumption during standby.
[NORMAL]	Select this item to use the network function or the serial communication function during standby.
[NETWORK]	Select this item 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.

#### Note

- If [STANDBY MODE] is set to [ECO], you cannot use network functions when the projector is standing by. Also, you cannot use some RS-232C protocol commands.
- When 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.
- If [STANDBY MODE] is set to [NETWORK], it takes less power consumption than it is set to [NORMAL].
- When [STANDBY MODE] is set to [NETWORK], it will be no restriction for network function and serial communication function within 60 seconds when the Wake on LAN function is working.
- The setting of [STANDBY MODE] cannot be returned to the factory default even if the [PROJECTOR SETUP] menu → [INITIALIZE ALL] is executed (▶ page 84).

### [EMULATE]

When controlling the projector on a computer via the <SERIAL IN> terminal, set use of control commands on a previously purchased Panasonic projector. This allows the control software for an existing Panasonic projector to be inherited and used.

- 1) Press ▲▼ to select [EMULATE].
- 2) Press the <ENTER> button.
  - The [EMULATE] screen is displayed.
- 3) Press ▲▼ to select one item.

[DEFAULT]	VW355N series, VX425N series, VZ575N series, VW535N series, VX605N series, VZ570 series, VW530 series, VX600 series, EZ580 series, EW640 series, EX610 series, EW540 series, EZ770 series, EW730 series, EX800 series, VW345N series, VX415N series, VW340Z, VX410Z, VX42Z, RZ475 series, RZ470 series, RW430 series, RZ370 series, RW330 series
[D3500]	D3500 series
[D4000]	D4000 series
[D/W5k SERIES]	D5700 series, DW5100 series, D5600 series, DW5000 series, D5500 series