myprojectorlamps.com

The most trusted, dependable name in projector lamp sales.







Panasonic

Functional Instructions

LCD Projector

Model No. PT-AE4000E







Thank you for purchasing this Panasonic product.

For your own safety, please read "Precautions with regard to safety" of the operating instructions carefully before operating your projector.

TQBJ0314

Contents

Quick steps

1. Set up your projector See "Setting up" on page 4.



2. Connect with other devices See "Connections" on page 8.



3. Prepare the remote control See "Remote control" of the operating instructions.



4. Start projecting See "Switching the projector on/off" on page 9.



5. Adjust the image See "Menu Navigation" on page 16.

Getting Started	
Screen size and throw distance	4 5 5
Lens shift and positioning Connections	
Before connecting to the projector	8
S-VIDEO IN/VIDEO IN	8
Connecting example: HDMI IN/ COMPUTER IN	8
Basic Operation	
Switching the projector on/off	9
Mains lead	
Power indicator	
Switching on the projector	
Switching off the projector	
Projecting an image	
Selecting the input signal Positioning the image	
Remote control operation	
Operating range	
Managing the lens control settings	
Switching the picture mode	
Adjusting the image	

Loading a saved setting 14 VIERA Link 14

with a waveform 14 Capturing an image......14 Resetting to the factory default settings 14

SUB MENU 15

as a shortcut......15

Adjusting the signal condition

Using the assigned function

Settings

Menu Navigation	
Navigating through the MENU	16
Menu list	
PICTURE menu	20
PICTURE MODE	
CONTRAST	20
BRIGHTNESS	
COLOUR	
TINT	20
SHARPNESS	20
COLOUR TEMPERATURE	21
DYNAMIC IRIS	21
WAVEFORM MONITOR	
SPLIT ADJUST	22
ADVANCED MENU	
MEMORY SAVE	
MEMORY LOAD	
MEMORY EDIT	
SIGNAL MODE	31
POSITION menu	32
H-POSITION	32
V-POSITION	
DOT CLOCK	
CLOCK PHASE	32
ASPECT	
WSS	
OVER SCAN	
KEYSTONE	
AUTO SETUP	
LENS CONTROL	35
ZOOM/FOCUS	
LENS MEMORY LOAD	
LENS MEMORY SAVE	
LENS MEMORY EDIT	
AUTO SWITCHING	
H-AREA POSITION	
V-AREA POSITION	
LEFT MASKING AREA	_
RIGHT MASKING AREA	
UPPER MASKING AREA	
LOWER MASKING AREA	37

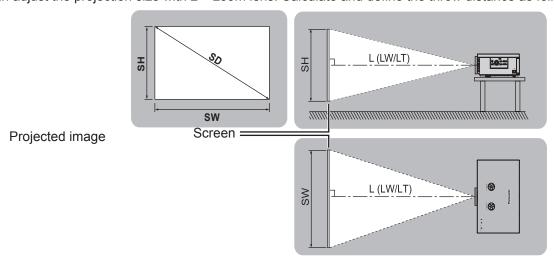
FUNCTION BUTTON	38
OPTION menu	39
INPUT GUIDE	39
OSD DESIGN	39
OSD POSITION	39
BACK COLOUR	39
STARTUP LOGO	39
AUTO SEARCH	39
HDMI SIGNAL LEVEL	39
FRAME RESPONSE	
INSTALLATION	
TRIGGER 1/2 SETTING	
SLEEP	
HIGH ALTITUDE MODE	
LAMP POWER	
VIERA LINK SETTINGS	
TEST PATTERN	
LAMP RUNTIME	41
ppendix	
- Technical Information	42
Serial terminal	
VIERA Link Connection	
Summary of VIERA Link features	

Trademark acknowledgements...... 50

Setting up

Screen size and throw distance

You can adjust the projection size with 2 × zoom lens. Calculate and define the throw distance as follows.



All measurements and the calculation results below are approximate and may differ from the actual measurements.

		Throw distance (16:9)				Т	hrow dista	nce (2.35:1)
Screen Diagonal (SD)			Minimum distance (LW) Maximum distant						distance T)
1.02 m	(40")	1.2 m	(3'11")	2.3 m	(7'6")	1.3 m	(4'3")		
1.27 m	(50")	1.5 m	(4'11")	2.9 m	(9'6")	1.6 m	(5'3")	2.3 m	(7'6")
1.52 m	(60")	1.8 m	(5'10")	3.5 m	(11'5")	1.9 m	(6'2")	2.8 m	(9'2")
1.78 m	(70")	2.1 m	(6'10")	4.1 m	(13'5")	2.2 m	(7'2")	3.3 m	(10'9")
2.03 m	(80")	2.4 m	(7'10")	4.7 m	(15'5")	2.6 m	(8'6")	3.8 m	(12'5")
2.29 m	(90")	2.7 m	(8'10")	5.3 m	(17'4")	2.9 m	(9'6")	4.2 m	(13'9")
2.54 m	(100")	3.0 m	(9'10")	5.9 m	(19'4")	3.2 m	(10'6")	4.7 m	(15'5")
3.05 m	(120")	3.6 m	(11'9")	7.2 m	(23'7")	3.8 m	(12'5")	5.7 m	(18'8")
3.81 m	(150")	4.5 m	(14'9")	9.0 m	(29'6")	4.8 m	(15'9")	7.1 m	(23'3")
5.08 m	(200")	6.0 m	(19'8")	12.0 m	(39'4")	6.4 m	(21'0")	9.6 m	(31'6")
6.35 m	(250")	7.6 m	(24'11")	15.0 m	(49'2")	8.0 m	(26'3")	12.0 m	(39'4")
7.62 m	(300")	9.1 m	(29'10")	18.0 m	(59')	9.6 m	(31'6")	14.4 m	(47'2")

^{*1.} When using both 2.35:1 and 16:9 aspect images onto a 2.35:1 sized screen.

Calculation methods for screen dimensions

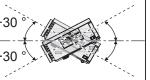
You can calculate more detailed screen dimensions from the screen diagonal.

	16:9 size	2.35:1 size
Screen height (SH)	= SD (m) × 0.490	= SD (m) × 0.392
Screen width (SW)	= SD (m) × 0.872	= SD (m) × 0.920
Minimum distance (LW)	= SD (m) × 1.189 - 0.04	= SD (m) × 1.256 - 0.04
Maximum distance (LT)	= SD (m) × 2.378 - 0.05	= SD (m) × 1.899 - 0.05

NOTE:

You can tilt the projector body less than approximately ±30 ° vertically and ±10 ° horizontally. +30
 Overtilting may result in shortening the component's life.

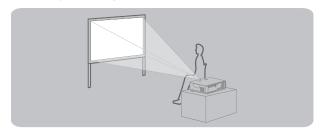
• Do not cover the air exhaust/intake ports or place anything within 50 cm (19 5/8") of them.



Projection method

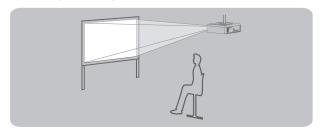
You can use the projector with any of the following 4 projection methods. To set the projector in the desired method, see "INSTALLATION" on page 39.

Setting on a desk/floor and projecting from front



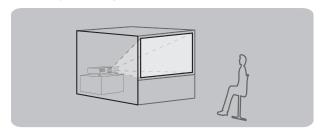
INSTALLATION: FRONT/DESK

Mounting on the ceiling and projecting from front



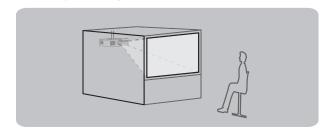
INSTALLATION: FRONT/CEILING

Setting on a desk/floor and projecting from rear



INSTALLATION: REAR/DESK

Mounting on the ceiling and projecting from rear



INSTALLATION: REAR/CEILING

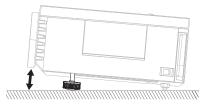
NOTE:

- A translucent screen is required for rear projection.
- When mounting the projector on the ceiling, the optional ceiling mount bracket (ET-PKE2000, ET-PKE1000S) is required.
- See "Ceiling mount bracket safeguards" in "Technical Information" of the operating instructions.

Front leg adjusters and throwing angle

You can screw up/down the front leg adjusters to control the angle of the projector for adjusting the throwing angle. See "Positioning the image" on page 12.





- Heated air comes out of the air exhaust port. Do not touch the air exhaust port directly.
- If keystone distortion occurs, see "KEYSTONE" on page 34.
- · Screw up the front leg adjusters, and an audible click will be heard as the limit.

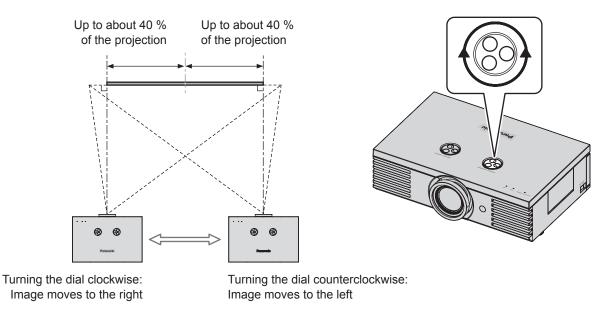
Lens shift and positioning

If the projector is not positioned right in front of the centre of the screen, you can adjust the projected image position by moving the lens shift dials within the shift range of the lens.

Adjusting the lens shift dials

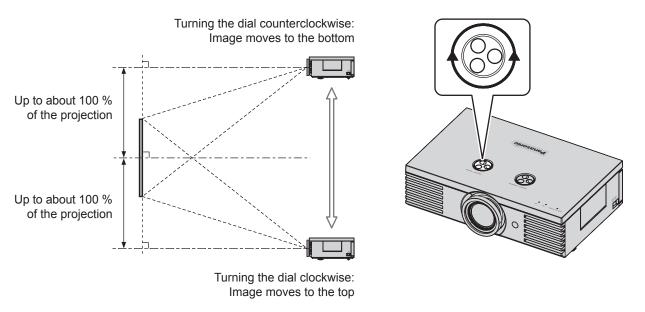
Horizontal shift

You can place the projector where the projector lens is up to 40 % horizontally off-centre from the screen and then adjust the image position with the **Lens shift dial • Horizontal**.



Vertical shift

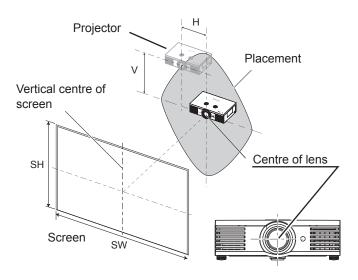
You can place the projector where the projector lens is up to 100 % vertically off-centre from the screen and then adjust the image position with the **Lens shift dial • Vertical**.



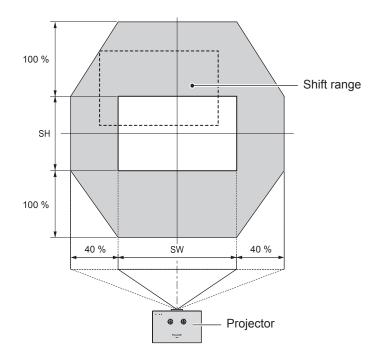
Projector location range

You can determine where to locate the screen and the projector by considering the lens shift possibilities.

When the screen position is fixed



When the projector position is fixed



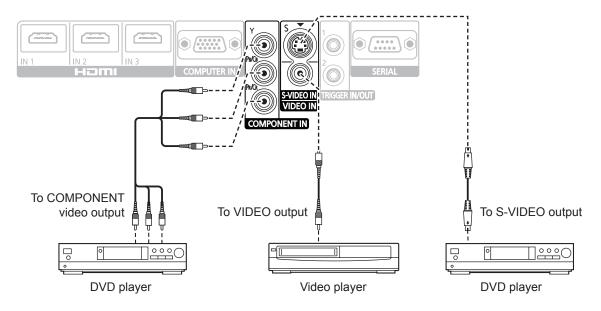
- When the projector is located right in front of the centre of the screen and the lens shift dials is centred, you will get the best quality of the projection image.
- When the **Lens shift dial Vertical** is at the vertical limit of the shift range, you cannot turn the dial to the horizontal limit, likewise when the **Lens shift dial Horizontal** is at the horizontal limit of the shift range, you cannot turn the dial to the vertical limit.
- When the projector is tilted and adjusting **KEYSTONE**, the centre of the screen and the lens need to be realigned.
- Do not force the lens shift dials to turn as this may damage the projector. Turning the dials maximum limit is 3 or 4 times from the default position.

Connections

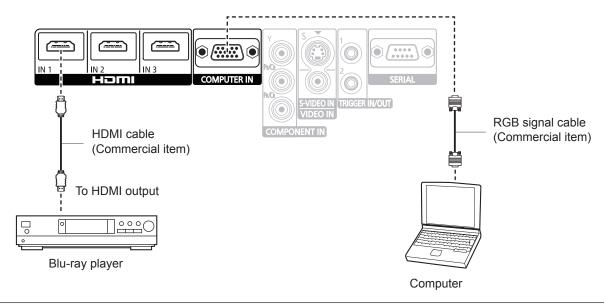
Before connecting to the projector

- Read and follow the operating and connecting instructions of each peripheral device.
- The peripheral devices must be turned off.
- Use cables that match each peripheral device to be connected.
- Confirm the type of video signals. See "List of compatible signals" in "Technical Information" of the operating instructions.
- Audio cables must be connected from each peripheral device directly to the audio reproduction system.

Connecting example: COMPONENT IN/S-VIDEO IN/VIDEO IN



Connecting example: HDMI IN/COMPUTER IN



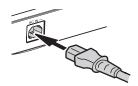
- Make sure the HDMI cable is adapted to your HDMI device for proper performance.
- A compatible cable is required for an HDMI 1 080p signal.
- It is possible to connect with DVI devices via a HDMI/DVI conversion adapter, but some equipment may not project the image properly or other problems could be encountered.
- · Please tighten securely, fixing the screws on the connectors (D-SUB 15-pin) of the RGB signal cable.
- For more information about the serial terminals, see "Serial terminal" on page 42.

Switching the projector on/off

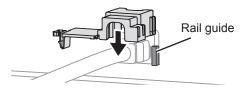
Mains lead

Connecting

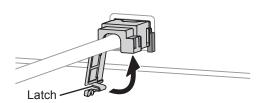
1. Make sure the shape of the mains plug and the **AC IN** terminal on the back of the projector match, then push the plug all the way in.



Align the side of the power cord secure lock with the side guide rail of the AC IN terminal of the projector and slide it in.



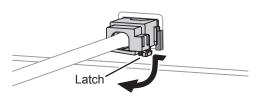
3. Place the latch to the latch catcher and press until it clicks.



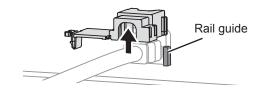
4. Connect the mains plug to a mains socket.

Disconnecting

- 1. Unplug the mains plug from the mains socket.
- 2. Depress the latch and slide the cover off.



3. Slide the power cord secure lock up along the side guide rail.



Hold the plug and unplug it from the AC IN terminal on the back of the projector.

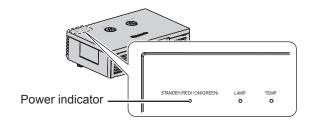
- Do not use other than the provided mains lead.
- Ensure all the input devices are connected and turned off before connecting the mains lead.
- · Do not force the connector as this may damage the projector and/or the mains lead.
- Dirt or dust build-up around plugs may cause fire or electrical hazards.
- · Switch off the power to the projector when not in use.

Switching the projector on/off

Power indicator

Power indicator informs you of the status of the power.

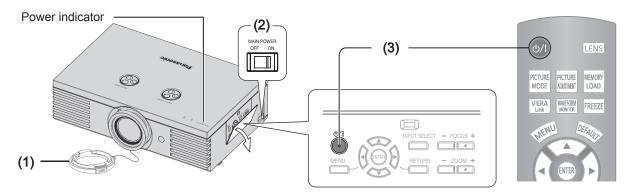
 When the **TEMP** indicator is flashing, the power indicator will turn red, and you cannot switch on the power.



Indicator status		Status
No illumination or flashing		MAIN POWER is switched off.
Lit		MAIN POWER is switched on and the projector is in standby mode.
Red	Flashing	MAIN POWER is switched on (standby mode) and the POWER ON LINK is set to ON. • The power consumption is not much different when it is lit. (See "VIERA Link Connection" on page 45)
Croon	Flashing	The power button is switched on and the projector is getting ready to project.
Green	Lit	Projecting.
	Lit	The power button is switched off and the projector is cooling the lamp.
Orange	Flashing	The power button is switched on again when cooling the lamp and recovering to projection mode. Recovery may take a while.

- See "TEMP indicator" in "TEMP and LAMP Indicators" of the operating instructions.
- While the projector is cooling the lamp, do not switch MAIN POWER off or unplug the mains lead.
- The electric consumption in standby mode is 0.08 W.

Switching on the projector



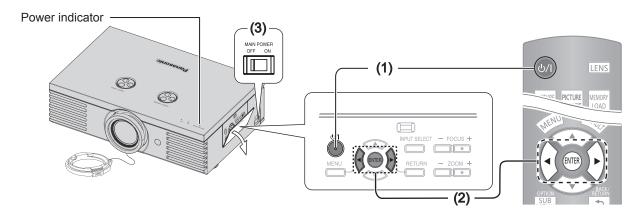
- 1. Remove the lens cover from the lens.
- 2. Switch MAIN POWER on.
 - The power indicator lights up in red.

- 3. Press the power button.
 - The power indicator lights up in green after flashing for a while.
 - The **STARTUP LOGO** is displayed on the screen. See "STARTUP LOGO" on page 39.

NOTE:

- When the internal cooling fan is operating, some operational sound may be heard. The loudness of the operational sound depends on the external temperature.
- You can reduce the operational sound by setting the LAMP POWER in OPTION menu to the ECO-MODE. See "LAMP POWER" on page 41.
- When starting up the projector, some small rattling or tinkling sound may be heard, or the display may flicker for the characteristics of the lamp. Those are normal and will not affect the performance of the projector.
- · Do not attempt to modify the lens cover which may cause burns, fire or damage to the projector.

Switching off the projector



- 1. Press the power button.
 - The confirmation screen is displayed.
 - To return to the projection, press the MENU or RETURN button.
- 2. Press the power or **ENTER** button.
 - The power indicator lights up in orange while cooling the lamp, then illuminates red when it is ready to switch off MAIN POWER.
- Switch off MAIN POWER on the left side of the projector.
- 4. Attach the lens cover.

NOTE:

• Press the power button twice or for a long duration to switch the power off.

Projecting an image

Selecting the input signal

- 1. Switch on the connected devices.
 - Press the play button of the required device.
- Press the INPUT SELECT button to select the required input method if needed. See "Switching the input signal" on page 15.
 - The image will be projected on the screen.

NOTE:

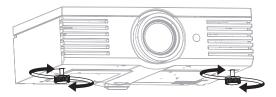
 AUTO SEARCH is ON as default and the signal from the connected devices is detected automatically. See "AUTO SEARCH" on page 39.

Positioning the image

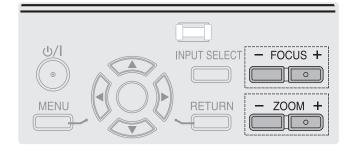
1. Adjust the projected image with the lens shift dials. See "Lens shift and positioning" on page 6.



- 2. Adjust the angle of the projector.
 - Screw the front leg adjusters up/down and adjust the angle vertically.
 - See "Front leg adjusters and throwing angle" on page 5.



- 3. Adjust the focus and the projected image size.
 - Press +/- of the FOCUS and ZOOM buttons to adjust.
 - Press the LENS button to adjust the focus and zoom by the remote control. See "LENS CONTROL" on page 35.



- Do not touch the air exhaust port as this may cause burns or injury.
- If keystone distortion occurs, see "KEYSTONE" on page 34.
- If you adjust the focus, you may need to adjust the size of the image by pressing the **ZOOM** button again.

Remote control operation

Operating range



You can operate the projector with the remote control within the remote range of 7 m (22'11").

Facing to the projector

Ensure the remote control emitter is facing the remote control signal receptor on the front of the projector and press the required buttons to operate.

Facing to the screen

Ensure the remote control emitter is facing the screen and press the required buttons to operate the projector. The signal will be reflected off the screen. The operating range may differ due to the screen material. This function may not be effective with a translucent screen.

NOTE:

- Do not let strong light shine onto the signal receptor.
 The remote control may malfunction under strong light such as fluorescent light.
- If there are any obstacles between the remote control and the remote control signal receptor, the remote control may not operate correctly.

Managing the lens control settings

LENS

You can adjust the focus and zoom of the projected image, and save the settings. Press the **LENS** button once to display the **LENS CONTROL** menu.

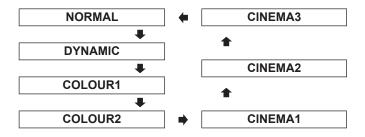
If you have saved Lens Memories, press the **LENS** button twice to load the saved memories instantly. And press the **LENS** button three times to go back to the **LENS CONTROL** menu.

See "LENS CONTROL" on page 35.

Switching the picture mode



You can switch the preset picture mode settings by pressing the **PICTURE MODE** button. Press the button until the required setting is selected. See "PICTURE MODE" on page 20.



Adjusting the image



You can display the PICTURE and ADVANCED MENU menu items by pressing the PICTURE ADJUSTMENT button. Press the button to switch between PICTURE and ADVANCED MENU menu.

Press ▲ ▼ to select the required menu item and ◀ ▶ to adjust.

PICTURE menu items PICTURE MODE, CONTRAST, BRIGHTNESS, COLOUR, TINT, SHARPNESS, COLOUR TEMPERATURE and DYNAMIC IRIS ADVANCED MENU items
GAMMA ADJUSTMENT, CONTRAST R/G/B,
BRIGHTNESS R/G/B, NR, MPEG NR,
FRAME CREATION, COLOUR MANAGEMENT,
x.v.Colour, DETAIL CLARITY, CINEMA REALITY,
TV-SYSTEM and RGB/YPbPr.

- For each menu item description, see "PICTURE menu" on page 20.
- The screen will be cleared after 7 seconds without any operation.
- The GAMMA setting is only available when the GAMMA ADJUSTMENT is set to SIMPLE.

Remote control operation

Loading a saved setting



You can access saved settings instantly. See "MEMORY LOAD" on page 31.

- 1. Select the required setting from **MEMORY 1 16**.
 - Undefined setting will not be displayed.
- 2. Press the **ENTER** button to activate the selected setting.

NOTE:

 If you have not saved any settings, MEMORY 1 - 16 will not be displayed.

VIERA Link



You can control some functions of the connected equipment with this projector remote control. See the operating instructions for more details.

Adjusting the signal condition with a waveform

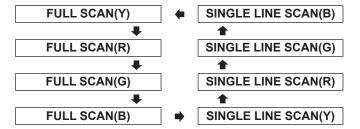
WAVEFORM MONITOR You can display the image brightness and contrast level of the input signal with a waveform. See "WAVEFORM MONITOR" on page 21.

FULL SCAN

Monitoring the waveform of brightness and contrast of the whole image.

Monitoring the waveform of brightness and contrast in each horizontal line of the image.

- 2. Press the ENTER button until the required waveform option is displayed.
 In FULL SCAN mode, press ▲ ▼ ◄ ▶ to change
 - the waveform position.
 - In SINGLE LINE SCAN mode, press ▲ ▼ to select the required line position.



Displaying the waveform

- Press the WAVEFORM MONITOR button and display the waveform monitor.
 - Press the WAVEFORM MONITOR button again to escape from the waveform mode.

NOTE:

- In **SINGLE LINE SCAN** mode, the position of the waveform monitor depends on the position of the selected line.
- You can display the main menu by pressing the **MENU** button and adjust the menu items.
- · The called up menu items displayed position depends on the position of the waveform monitor.
- You can activate AUTO ADJUST of the WAVEFORM MONITOR menu by pressing the DEFAULT button.
- The signal which is lower than 0 % in the waveform will be displayed as same as 0 % on the projected image.
- While the waveform is displayed, you can not adjust the COLOUR MANAGEMENT settings.

Capturing an image



Press the **FREEZE** button to capture the image, and you can see it as a still picture while the AV equipment are still running. Press the **FREEZE** button again to escape and return to the continuing image.

While displaying the frozen image, you can enter the **AREA SELECT** mode of the **SPLIT ADJUST** menu by pressing the **ENTER** button. See "SPLIT ADJUST" on page 22.

Resetting to the factory default settings



You can reset most of the customised settings to the factory defaults by pressing the **DEFAULT** button. Display the required sub-menu or the menu items and press the button.

NOTE:

 Some menu items are not available to reset by pressing the **DEFAULT** button. Adjust each menu item manually.

SUB MENU

SUB You can command the connected equipment to display their sub menu.

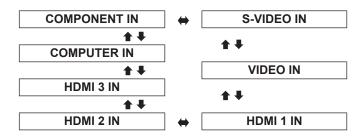
MENU • It is used with the Link function (VIERA Link).

Switching the input signal

INPUT SELECT

You can switch the input method manually by pressing the **INPUT SELECT** button. Press the button several times or press ▲ ▼ ◀ ► to cycle through the input methods as follows. The actual projected image will be changed in a while.

The graphical guidance will be displayed on the upper right of the projected image and you can confirm the selected input method which is highlighted in yellow. See "INPUT GUIDE" on page 39.



COMPONENT IN	COMPONENT (YPBPR) signals from the equipment connected to COMPONENT IN.
S-VIDEO IN	S-VIDEO signal from the equipment connected to S-VIDEO IN.
VIDEO IN	VIDEO signal from the equipment connected to VIDEO IN.
HDMI 1 IN	HDMI signal from the equipment
HDMI 2 IN	connected to HDMI IN 1/HDMI IN 2/
HDMI 3 IN	HDMI IN 3.
COMPUTER IN	RGB/YP _B P _R signal from the equipment connected to COMPUTER IN.

NOTE:

- · If you select an unplugged input method, the guidance will blink on and off.
- · See "List of compatible signals" in "Technical Information" of the operating instructions.
- · See "Connections" on page 8.

Using the assigned function as a shortcut

You can access the assigned function in FUNCTION BUTTON menu as a shortcut. See "FUNCTION FUNCTION BUTTON" on page 38.

COLOUR MANAGEMENT	page 27
GAMMA ADJUSTMENT	page 23
SPLIT ADJUST	page 22
WAVEFORM AUTO ADJUST	page 21
FRAME CREATION	page 26
NORMAL	
DYNAMIC	
COLOUR1	
COLOUR2	page 20
CINEMA1	
CINEMA2	
CINEMA3	
TEST PATTERN	page 41

OPERATE OTHER DEVICE	Booklet
ASPECT	page 32
AUTO SETUP	page 34
CONTRAST	2020
BRIGHTNESS	page 20
BLANK	page 38
HDMI 1 IN	
HDMI 2 IN	
HDMI 3 IN	
COMPUTER IN	page 15
COMPONENT IN	
S-VIDEO IN	
VIDEO IN	

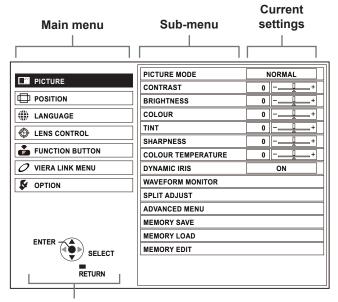
Menu Navigation

Navigating through the MENU

Displaying the main menu



Press the **MENU** button to display the main menu and the operating guidance.

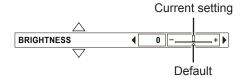


Operating guidance

Contains the required buttons to adjust the settings.

Adjusting with the bar scale items

The triangle mark under the bar indicates factory default setting and the square indicates the current setting.



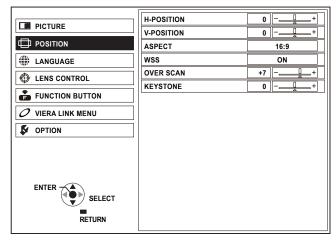
Returning to the previous menu



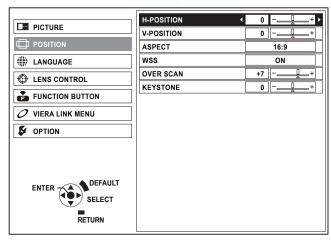
Press the **MENU** or **RETURN** button to return to the previous menu. Press repeatedly to escape from the menu mode and return to the projection.

Operating procedure

- 1. Press ▲ ▼ to scroll to the required main menu item and press the **ENTER** button to select.
 - The selected item is highlighted in orange and the sub-menu is displayed on the right.
 - See "Menu list" on page 17.



- Press ▲ ▼ to scroll to the required sub-menu item and press ◀ ▶ or the ENTER button to adjust.
 - The selected item is called up and the other menu items disappear from the screen. The Called up item will disappear after 5 seconds without any operation and return to the menu mode.
 - If there is a lower level to the sub-menu item, the next level will be displayed.



- 3. Press ◀ ▶ to adjust or set the selected item.
 - For items using a bar scale, the current settings are displayed on the left of the bar scale.
 - You can cycle through the options of an item by pressing ▲ ▼.



4. Press the **MENU** or **RETURN** button to return to the previous menu.

Menu list

The menu options are structured and categorised. You can navigate through the menu with ▲ ▼ ◀ ▶ buttons.

NOTE:

- The underlined items are factory default settings.
- · Some default settings vary by the selected input signal.
- Sub-menu items vary according to the selected input signal.
- Some settings are adjustable without any signals.

PICTURE

	It is	possible	to	adjust	the	picture	quality.
--	-------	----------	----	--------	-----	---------	----------

 It is possible to adjust the 	e picture quaii	ιy.
PICTURE MODE		page 20
NORMAL	DYNAMIC	. 0
COLOUR1	COLOUR2	
CINEMA1	CINEMA2	
CINEMA3		
CONTRAST		page 20
(Default: 0)		
BRIGHTNESS		page 20
(Default: 0)		
COLOUR		page 20
(Default: 0)		. 0
TINT		page 20
(Default: 0)		
SHARPNESS		page 20
(Default: 0)		1 5
COLOUR TEMPERA	ATURE	page 21
(Default: 0)		
DYNAMIC IRIS		page 21
ON	OFF	
	Oll	
WAVEFORM MONIT		page 21
		page 21
WAVEFORM MONIT		
WAVEFORM MONIT	OR	R)
WAVEFORM MONIT OFF FULL SCAN(Y)	OR FULL SCAN(F	R)
WAVEFORM MONIT OFF FULL SCAN(Y) FULL SCAN(G)	OR FULL SCAN(F	R)
WAVEFORM MONIT OFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y)	OR FULL SCAN(F	R)
WAVEFORM MONIT OFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R)	OR FULL SCAN(F	R)
WAVEFORM MONIT OFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R) SINGLE LINE SCAN(R)	OR FULL SCAN(F	R)
WAVEFORM MONIT OFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R) SINGLE LINE SCAN(G) SINGLE LINE SCAN(B) MONITOR POSITION UPPER LEFT	FULL SCAN(F FULL SCAN(E	R) B)
WAVEFORM MONIT OFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R) SINGLE LINE SCAN(G) SINGLE LINE SCAN(B) MONITOR POSITION UPPER LEFT UPPER RIGHT	FULL SCAN(E FULL SCAN(E UPPER CENTR LOWER LEFT	R) B)
WAVEFORM MONIT OFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R) SINGLE LINE SCAN(B) MONITOR POSITION UPPER LEFT UPPER RIGHT LOWER CENTRE	FULL SCAN(F FULL SCAN(E	R) B)
WAVEFORM MONIT OFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R) SINGLE LINE SCAN(B) MONITOR POSITION UPPER LEFT UPPER RIGHT LOWER CENTRE AUTO ADJUST	FULL SCAN(E FULL SCAN(E UPPER CENTR LOWER LEFT	R) B)
WAVEFORM MONIT OFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R) SINGLE LINE SCAN(B) MONITOR POSITION UPPER LEFT UPPER RIGHT LOWER CENTRE AUTO ADJUST START AUTO ADJUST	FULL SCAN(F FULL SCAN(E UPPER CENTR LOWER LEFT LOWER RIGHT	R) B)
WAVEFORM MONITOFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R) SINGLE LINE SCAN(B) MONITOR POSITION UPPER LEFT UPPER RIGHT LOWER CENTRE AUTO ADJUST START AUTO ADJUST BLACK LEVEL ADJUST	FULL SCAN(F FULL SCAN(E UPPER CENTR LOWER LEFT LOWER RIGHT	R) B)
WAVEFORM MONITOFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R) SINGLE LINE SCAN(B) MONITOR POSITION UPPER LEFT UPPER RIGHT LOWER CENTRE AUTO ADJUST START AUTO ADJUST BLACK LEVEL ADJUST	FULL SCAN(F FULL SCAN(E UPPER CENTR LOWER LEFT LOWER RIGHT	R) B)
WAVEFORM MONITOFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R) SINGLE LINE SCAN(B) MONITOR POSITION UPPER LEFT UPPER RIGHT LOWER CENTRE AUTO ADJUST START AUTO ADJUST BLACK LEVEL ADJUST	FULL SCAN(F FULL SCAN(E UPPER CENTR LOWER LEFT LOWER RIGHT	R) B)
WAVEFORM MONITOFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R) SINGLE LINE SCAN(B) MONITOR POSITION UPPER LEFT UPPER RIGHT LOWER CENTRE AUTO ADJUST START AUTO ADJUST BLACK LEVEL ADJUST RGB ADJUST (BLACK)	FULL SCAN(F FULL SCAN(E UPPER CENTR LOWER LEFT LOWER RIGHT	E
WAVEFORM MONIT OFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R) SINGLE LINE SCAN(B) MONITOR POSITION UPPER LEFT UPPER RIGHT LOWER CENTRE AUTO ADJUST START AUTO ADJUST BLACK LEVEL ADJUST RGB ADJUST (BLACK) RGB ADJUST (WHITE)	FULL SCAN(F FULL SCAN(E UPPER CENTR LOWER LEFT LOWER RIGHT	R) B)
WAVEFORM MONITOFF FULL SCAN(Y) FULL SCAN(G) SINGLE LINE SCAN(Y) SINGLE LINE SCAN(R) SINGLE LINE SCAN(B) MONITOR POSITION UPPER LEFT UPPER RIGHT LOWER CENTRE AUTO ADJUST START AUTO ADJUST BLACK LEVEL ADJUST RGB ADJUST (BLACK) RGB ADJUST (WHITE) SPLIT ADJUST	FULL SCAN(F FULL SCAN(E UPPER CENTR LOWER LEFT LOWER RIGHT	E

A		
ADVANCED MENU		page 23
GAMMA ADJUSTMENT	•	
SIMPLE	ADVANCED	
CONTRAST R	(Default: 0)	
CONTRAST G	(Default: 0)	
CONTRAST B	(Default: 0)	
BRIGHTNESS R	(Default: 0)	
BRIGHTNESS G	(Default: 0)	
BRIGHTNESS B	(Default: 0)	
NR	(Default: 0)	
MPEG NR	(Default: 0)	
FRAME CREATION	,	
OFF	MODE1	
MODE2	MODE3	
COLOUR MANAGEMEI	NT	
PROFILE	ADJUSTMENT	MODE
START ADJUSTMENT		
PROFILE SAVE	PROFILE DELI	ETE
PROFILE NAME CHAN	GE	
x.v.Colour	055	
<u>ON</u> DETAIL CLARITY	OFF	
	(Default: 3)	
CINEMA REALITY	OFF	
<u>on</u> TV-SYSTEM	OFF	
AUTO		
NTSC	NTSC 4.43	
PAL	PAL-M	
PAL-N	SECAM	
RGB/YPbPr		
<u>AUTO</u> RGB	YPbPr	
MEMORY SAVE		page 30
MEMORY 1 - 16		
MEMORY LOAD		page 31
MEMORY 1 - 16		10.90
MEMORY EDIT		page 31
MEMORY DELETE		pa.g
MEMORY 1 - 16	ALL DELETE	
MEMORY NAME CHAN		
MEMORY 1 - 16		
SIGNAL MODE		page 31
		1: -: 3 - 3 :

REVERSE

NORMAL

Menu Navigation



 It is possible 	e to adjust t	the image si	ze and position.
H-POSIT	ION		page 32
(Default:	0)		
V-POSIT	ION		page 32
(Default:	0)		
DOT CLO	OCK		page 32
(Default:	0)		
CLOCK PHASE		page 32	
(Default: 0)			
ASPECT			page 32
4:3	16:9	s16:9	14:9
ZOOM	ZOOM1	ZOOM2	JUST
AUTO	H-FIT	V-FIT	
WSS			page 34
<u>ON</u>		OFF	
OVER SO	CAN		page 34

LANGUAGE

KEYSTONE

(Default: 0)

AUTO SETUP

It is possible to change the display language.

page 34

page 34

•	. ,	
	POLSKI	
	ČEŠTINA	
	MAGYAR	
	РҮССКИЙ	
	ไทย	
	한국어	
	ENGLISH	
	中文	
	日本語	
	Ü	

ENS CONTROL

It is possible to adjust the lens position

it is possible to adjust the lens position.	
ZOOM/FOCUS	page 35
LENS MEMORY LOA	AD page 35
LENS MEMORY 1 - 6	
LENS MEMORY SAV	/E page 35
LENS MEMORY 1 - 6	
LENS MEMORY EDI	T page 36
LENS MEMORY DELETE	
LENS MEMORY 1 - 6	ALL DELETE
LENS MEMORY NAME (CHANGE
LENS MEMORY 1 - 6	
AUTO SWITCHING	page 36
2.35:1 IMAGE DETECTION	ON
<u>OFF</u>	LENS MEMORY 1 - 6
16:9 IMAGE DETECTION	1
<u>OFF</u>	LENS MEMORY 1 - 6

A	
H-AREA POSITION	page 37
(Default: 0)	
V-AREA POSITION	page 37
(Default: 0)	
LEFT MASKING AREA	page 37
(Default: 0)	
RIGHT MASKING AREA	page 37
(Default: 0)	
UPPER MASKING AREA	page 37
(Default: 0)	
LOWER MASKING AREA	page 37
(Default: 0)	

FUNCTION BUTTON page 38

 It is possible to assign a useful function to the **FUNCTION** button.

> **COLOUR MANAGEMENT GAMMA ADJUSTMENT SPLIT ADJUST WAVEFORM AUTO ADJUST**

FRAME CREATION

DYNAMIC NORMAL COLOUR1 COLOUR2 CINEMA1 **CINEMA2 CINEMA3 TEST PATTERN**

OPERATE OTHER DEVICE

ASPECT AUTO SETUP CONTRAST BRIGHTNESS BLANK HDMI 1 IN HDMI 2 IN HDMI 3 IN **COMPONENT IN COMPUTER IN** S-VIDEO IN **VIDEO IN**

VIERA LINK MENU

It is possible to link with the connected equipment.

VIERA LINK CONTROL	Booklet
RECORDER 1 - 3	
PLAYER 1 - 3	
HOME CINEMA 1 - 3	
VIDEO CAMERA 1 - 3	
LUMIX 1 - 3	
OTHER 1 - 4	
HOME CINEMA VOLUME	Booklet
HOME CINEMA MUTE	Booklet
OPERATE OTHER DEVICE	Booklet



 It is possible to change the option settings. 		
INPUT GUIDE DETAILED SIMPLE	OFF	page 39
OSD DESIGN TYPE1 TYPE3	TYPE2	page 39
OSD POSITION <u>CENTRE</u> LOWER CENTRE UPPER LEFT UPPER RIGHT	LOWER LEF LOWER RIGI UPPER CEN	HT
BACK COLOUR BLUE	BLACK	page 39
STARTUP LOGO ON	OFF	page 39
AUTO SEARCH ON	OFF	page 39
HDMI SIGNAL LEV NORMAL	EL EXPAND	page 39
FRAME RESPONS	E FAST	page 39
INSTALLATION FRONT/DESK REAR/DESK	FRONT/CEIL REAR/CEILII	
TRIGGER 1/2 SETT OFF OUTPUT POWER ON SELECT LENS MEMOR BLANK SELECT 4:3 ASPECT SELECT 16:9 ASPECT SELECT 516:9 ASPECT SELECT JUST ASPECT SELECT ZOOM ASPECT SELECT TOOM ASPECT SELECT V-FIT ASPECT SELECT V-FIT ASPECT RS-232C COMMAND L	RY 1 - 6 ET T T T T	page 40

	A		
DELAY TIME			
<u> 0 SEC.</u>	2 SEC.	4 SEC.	6 SEC.
8 SEC.	10 SEC.	20 SEC.	30 SEC.
INPUT			
POWER ON	I/OFF	BLANK	
SLEEP			page 41
<u>OFF</u>	60 MIN.	90 MIN.	120 MIN.
150 MIN.	180 MIN.	210 MIN.	240 MIN.
HIGH ALTIT	UDE M	ODE	page 41
<u>OFF</u>		ON	
LAMP POW	ER		page 41
NORMAL		ECO-MODE	
VIERA LINK	SETTI	NGS	page 41
VIERA LINK			
<u>ON</u>		OFF	
POWER ON	LINK		
<u>OFF</u>		ON	
POWER OFF	LINK		
<u>ON</u>		OFF	
STANDBY PO	OWER SA		
OFF		ON	
INTELLIGEN	I AUTO S		
OFF	MINIDED)	ON (WITH REI	WINDER)
ON (NO RE VERSION	MINDEK)		
	EDN		
TEST PATT			page 41
LAMP RUN	TIME		page 41

Remote control

Control panel

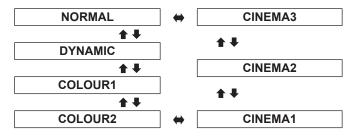




- See "Navigating through the MENU" on page 16.
- See "Menu list" on page 17.

PICTURE MODE

Depending on the projection environment, you can use these preset parameter settings to optimise image projection. Press ◀ ▶ to cycle through the options.



NORMAL	Setting for a general image, such as sports programme or TV games.
DYNAMIC	Bright and sharp setting.
COLOUR1	Setting for HDTV standard in ITU-R BT. 709 and colour temperature 6 500 K at the default setting of the PICTURE menu items.
COLOUR2	Setting for DCDM standard (SMPTE431-2) and colour temperature 6 300 K at the default setting of the PICTURE menu items.
CINEMA1	Setting tuned by top Hollywood colourists.
CINEMA2	Deeper and more rich colour setting
CINEMA3	Vivid and crisp colour setting.

NOTE:

• It may take a while until the selected mode is stabilised.

CONTRAST

You can adjust the contrast of the projected image. Adjust the **BRIGHTNESS** in advance if necessary.

Lower



Higher

Setting range: -64 to +64

BRIGHTNESS

You can adjust the brightness of the projected image.

Darker



Brighter

● Setting range: -32 to +32

COLOUR

You can adjust the colour saturation of the projected image.

Lighter



Darker

- Setting range: −32 to +32
- When RGB/YPBPR signal is connected, only available with the following signals.

TINT

You can adjust the skin tone in the projected image.

More reddish



More greenish

- Setting range: -32 to +32
- When COMPUTER signal is connected, only available with the following signals.

SHARPNESS

You can adjust the sharpness of the projected image.

Less sharp



More sharp

 Setting range will vary according to the selected input signal.

COLOUR TEMPERATURE

You can adjust the white balance of the projected image.

Less bluish



More bluish

• Setting range: -6 to +6

DYNAMIC IRIS

You can switch automatic adjustment of the lamp and the lens iris on/off.

ON: Automatic adjustmentOFF: No adjustment

WAVEFORM MONITOR

You can monitor whether or not the luminance level of the input signal is in the recommended range by displaying it in the waveform monitor. If the waveform is not in the recommended range, adjust it for the best quality. See "Adjusting the signal condition with a waveform" on page 14.

• OFF	
FULL SCAN(Y)	
FULL SCAN(R)	
FULL SCAN(G)	
FULL SCAN(B)	
SINGLE LINE SCAN(Y)	
SINGLE LINE SCAN(R)	
SINGLE LINE SCAN(G)	
SINGLE LINE SCAN(B)	
MONITOR POSITION	UPPER LEFT
AUTO ADJUST	

- Press ▲ ▼ to move to the required waveform style.
- 2. Press the **ENTER** button to select.
 - The WAVEFORM MONITOR will be displayed.

NOTE:

- When the WAVEFORM MONITOR is set to OFF, the AUTO ADJUST is not displayed.
- The waveform of the WAVEFORM MONITOR will not be displayed correctly with a noisy equipment or source.
- The WAVEFORM MONITOR adjusts the signal level based on the reference signal which consists of 0 % and 100 %. The over scanned reference signal which runs off the edge of the screen, below 0 % or over 100 % signal level will not be adjusted correctly.

MONITOR POSITION

When the **FULL SCAN** is selected, press ▲ ▼ ◀

- ▶ to adjust the position of the monitor.
- See "Adjusting the signal condition with a waveform" on page 14.

AUTO ADJUST

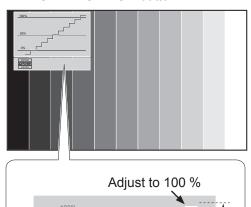
You can switch on/off the automatic adjustment system in each item.

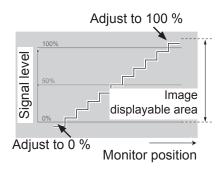
BLACK LEVEL ADJUST	ON
Adjust the black level of luminance (Y) to 0 %.	ON
WHITE LEVEL ADJUST	
Adjust the white level of luminance (Y) to	ON
100 %.	
RGB ADJUST (BLACK)	OFF
Adjust the black level of colours (R/G/B) to 0 %.	OFF
RGB ADJUST (WHITE)	
Adjust the white level of colours (R/G/B) to	OFF
100 %.	

- Press ▲ ▼ and select the required item.
- 2. Press ◀ ▶ and switch on/off.
- 3. Press ▲ ▼ and select START AUTO ADJUST and press the ENTER button.
 - The confirmation screen will be displayed.
- 4. Press **◄** ▶ and select **OK**.
- 5. Press the **ENTER** button.

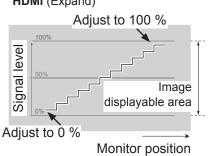
Adjustment example

Project a commercial test signal for picture adjustment on the screen and press the **WAVEFORM MONITOR** button.





 With COMPUTER (except HD) or HDMI (Expand)



Adjusting with luminance options

- 1. Press the **ENTER** button several times to display **FULL SCAN(Y)/SINGLE LINE SCAN(Y)**.
 - In SINGLE LINE SCAN mode, select the required adjusting point by pressing ▲ ▼.
- 2. Press the **PICTURE ADJUSTMENT** button and display the **BRIGHTNESS** by pressing ▲ ▼.
 - When ADVANCED MENU is displayed, press the button again to switch to the PICTURE menu.
- 3. Adjust by pressing ◀ ▶.
 - Adjust the bottom line of the waveform to 0 % (0 or 7.5 IRE).
 - Setting range: -32 to +32
- 4. Press ▲ ▼ to display the **CONTRAST**.
- 5. Adjust by pressing ◀ ▶.
 - Adjust the up line of the waveform to 100 % (100 IRE).
 - Setting range: -64 to +64

FULL SCAN(Y)/SINGLE LINE SCAN(Y)		
BRIGHTNESS	Adjust the bottom line of the waveform to 0 % (0 or 7.5 IRE)	
	Adjust the top line of the waveform to 100 % (100 IRE)	

Adjusting with RGB options

- 1. Press the **ENTER** button several times to display the required R/G/B waveform option.
 - In SINGLE LINE SCAN mode, select the required adjusting point by pressing ▲ ▼.
- Press the PICTURE ADJUSTMENT button and display the BRIGHTNESS R/BRIGHTNESS G/ BRIGHTNESS B by pressing ▲ ▼.
 - When PICTURE menu is displayed, press the button again to switch to the ADVANCED MENU.
- Adjust by pressing ◀ ▶.
 - Adjust the bottom line of the waveform to 0 % (0 or 7.5 IRE).
 - Setting range: −16 to +16
- Press ▲ ▼ to display the CONTRAST R/ CONTRAST G/CONTRAST B.
- 5. Adjust by pressing **◄** ▶.
 - Adjust the up line of the waveform to 100 % (100 IRE).
 - Setting range: −32 to +32

FULL SCAN(R)/SINGLE LINE SCAN(R)		
BRIGHTNESS R	Adjust the bottom line of the waveform to 0 % (0 or 7.5 IRE)	
CONTRAST R	Adjust the top line of the waveform to 100 % (100 IRE)	
FULL SCAN(G)/SINGLE LINE SCAN(G)		
BRIGHTNESS G	Adjust the bottom line of the waveform to 0 % (0 or 7.5 IRE)	
CONTRAST G	Adjust the top line of the waveform to 100 % (100 IRE)	
FULL SCAN(B)/SINGLE LINE SCAN(B)		
BRIGHTNESS B	Adjust the bottom line of the waveform to 0 % (0 or 7.5 IRE)	
CONTRAST B	Adjust the top line of the waveform to 100 % (100 IRE)	

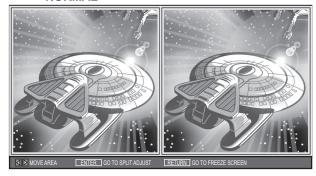
SPLIT ADJUST

You can perform image adjustment for some **PICTURE** menu items while displaying a certain area of the frozen image in a split window.

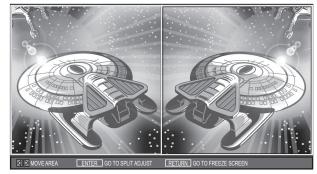
SPLIT ADJUST MODE

Select the required split style from **NORMAL** and **REVERSE** in the **SPLIT ADJUST MODE** menu.

NORMAL



REVERSE



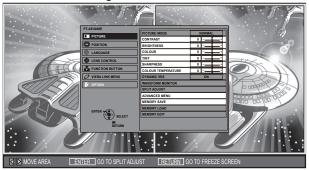
Adjusting the image in a split window

- Select AREA SELECT and press the ENTER button.
 - The image will be frozen and the area cursor will be displayed.



- Press ◀ ► to move the area cursor to select the area of interest and press the ENTER button.
 - The selected frozen image will be displayed in a split window.

3. Press the **MENU** button to display the **PICTURE** menu on the right.



- 4. Adjust the required PICTURE menu items.
 - Only the highlighted menu items are adjustable.
 - Sub-menu items vary according to the selected input signal. See "Menu list" on page 17.
- 5. Press the **MENU** or **RETURN** button several times to escape from the menu.
- 6. Press the ENTER button.
 - The confirmation screen will be displayed. Select YES to finish the adjustment.
- 7. Press the ENTER button.
 - Press the ENTER button again to return to the AREA SELECT.
 - Press the RETURN button to escape from the SPLIT ADJUST mode.

ADVANCED MENU

You can perform more detailed image adjustment manually.

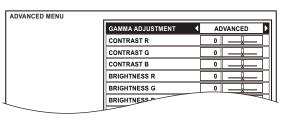
GAMMA

You can make detailed adjustments to the light intensity of each input signal level by using the **ADVANCED** mode or using the **SIMPLE** mode to adjust at 3 levels (high, mid, low).

NOTE:

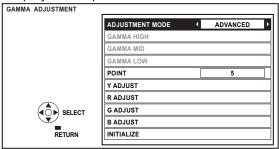
 You can only adjust the GAMMA settings through either the ADVANCED or SIMPLE mode.
 Both settings cannot be used at the same time.

Select GAMMA ADJUSTMENT in ADVANCED MENU, and press ◀ ► or the ENTER button.



Setting the GAMMA with the ADVANCED mode

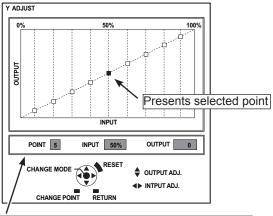
 The GAMMA ADJUSTMENT menu will be displayed and press ■ to select ADVANCED.



 To open the Y ADJUST menu, press ▲ ▼ to select Y ADJUST and then press the ENTER button.

In the graph below

- Maximum 9 points are adjustable.
- The point counts from lower input signal, 1 to 9.



Information about the present selected point.
The factory default setting:
POINT [5] INPUT [50 %] OUTPUT [0]

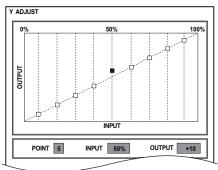
POINT	Display the present selected point number. Your selected point is indicated in yellow on the graph. (The factory default setting: point 5)
INPUT	Display the input level of the present selected point. Setting range: from 1 to 99 % in increments of 1 % (The factory default setting: 10, 20, 30, 40, 50, 60, 70, 80, 90 %)
ОИТРИТ	Display the output level of the present selected point. Adjustable range depends on the input level. (The factory default setting: 0)

- 3. Adjusting the linear intensity.
- 1) Changing the selected point.

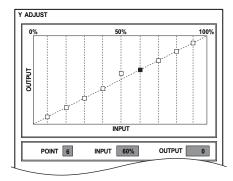
(Using the remote control)

 To select another point, press the SUB MENU button. Selected point will be moved each time the SUB MENU button is pressed.

Ex. $5 \rightarrow 6 \rightarrow \cdots 9 \rightarrow 1 \rightarrow \cdots$

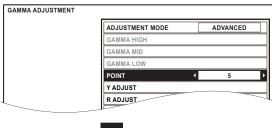


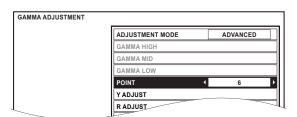




(Using the control panel/remote control)

- You can also change the POINT from the GAMMA ADJUSTMENT menu directly. Press the RETURN button to display the GAMMA ADJUSTMENT menu if you are in the Y/R/G/B ADJUST menu.
 - Use \blacktriangle \blacktriangledown to select **POINT** and \blacktriangleleft \blacktriangleright to change the point from 1 to 9.
- Ex. Press ▶ to change the point from 5 to 6.

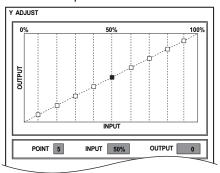




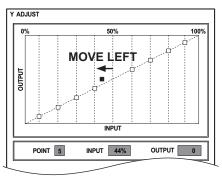
2) Adjusting the INPUT level.

To adjust the **INPUT** level from the present setting, press ◀ ▶ continuously until it reaches your desired level.

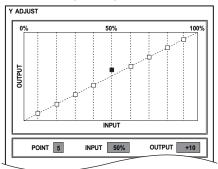
- It can move from left to right but cannot be set beyond the adjacent points.
- Only available to adjust the INPUT level in the Y ADJUST menu and not other menus (R/G/B ADJUST).
- Ex. Press ◀ in the **Y ADJUST** menu and move the selected point leftward.

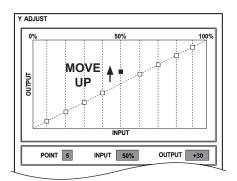




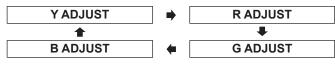


- Adjusting the OUTPUT level.
 To adjust the OUTPUT level from the present setting, press ▲ ▼ continuously until it reaches to your desired level.
 - It can move up and down but cannot be set beyond the adjacent points.
 - Ex. Press ▲ in the Y ADJUST menu and move the selected point upward.

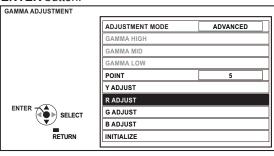


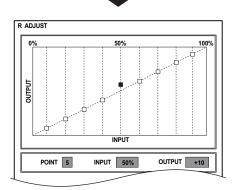


- 4) Changing the adjustment by different colour types.
 - To switch to a different colour ADJUST menu, press the ENTER button continuously until it reaches your desired colour ADJUST menu.



 You can also switch each different colour ADJUST menu through the GAMMA ADJUSTMENT menu. Select your required colour ADJUST (Y ADJUST, R ADJUST, G ADJUST, B ADJUST) with ▲ ▼ in the GAMMA ADJUSTMENT menu and press the ENTER button.



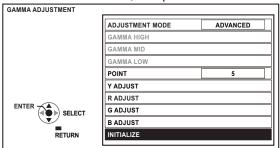


5) Setting the **OUTPUT** levels back to the default setting.

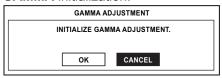
To set the **OUTPUT** level on the selected point back to the default setting "0", press the **DEFAULT** button on the remote control.

- Individual INPUT levels cannot be set back to their default settings by pressing the DEFAULT button.
 Please press ▼ b to move back themselves if needed.
- In the Y ADJUST menu, if you press the DEFAULT button, all Y/R/G/B output settings will go back to the default setting "0".
- · Adjustable range depends on the input signal.

- Initialize the GAMMA settings in the ADVANCED mode.
- Press ▲ ▼ to select INITIALIZE in the GAMMA ADJUSTMENT menu, and press the ENTER button.



The confirmation screen will be displayed for the GAMMA initialization.



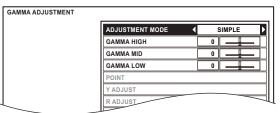
- Press ► to select OK and press the ENTER button.
 - Your GAMMA settings in the ADVANCED mode will go back to the factory default setting.

NOTE:

• It is not available to initialize in the SIMPLE mode.

Setting the GAMMA with the SIMPLE mode

In the GAMMA ADJUSTMENT menu, press ◀ ► to select SIMPLE in ADJUSTMENT MODE.



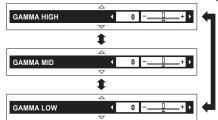
2. You can adjust linear intensity at 3 levels (high, mid, low).

Press ▲ ▼ to select your required **GAMMA** levels.

Levels	Default setting
GAMMA HIGH	0
GAMMA MID	0
GAMMA LOW	0

Setting range: -8 to +8

Press ◀ ▶ to increase/decrease 1 point.



CONTRAST

You can adjust the amount of contrast of individual RGB colours. Press ◀ ▶ to increase/decrease 1 point.

RGB	Default setting
CONTRAST R	0
CONTRAST G	0
CONTRAST B	0

Setting range: −32 to +32

BRIGHTNESS

You can adjust the brightness of individual RGB colours. Press ◀ ▶ to increase/decrease 1 point.

RGB	Default setting
BRIGHTNESS R	0
BRIGHTNESS G	0
BRIGHTNESS B	0

Setting range: −16 to +16

NR (Noise Reduction)

You can adjust the automatic noise reduction system level. Press ◀ ▶ to change the level.

• Setting range: 0 to +3

MPEG NR

You can adjust the automatic noise reduction system level for MPEG format images. The system minimise block noise and mosquito noise to eliminate jagged edges, and provides an overall smoother image. Press ◀ ▶ to change the level.

• Setting range: 0 to +3

NOTE:

 MPEG NR system is not available with COMPUTER/ HDMI (VGA60) signals.

■ FRAME CREATION

You can activate the rendering system for fast motion frames with fewer afterimage. Press ◀ ► to select the required option.

OFF Deactivate

MODE1 Setting for a cinema image
 MODE2 Setting for a moving image
 MODE3 Setting for a fast moving image

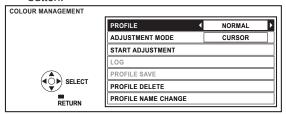
- With some of the images, it might be difficult to see a difference in result.
- The image might look delayed with the MODE2/ MODE3 setting. When the result does not meet your requirement, select MODE1 or deactivate the system.

COLOUR MANAGEMENT

You can adjust a selected colour individually by using **CURSOR** or adjust the six colour components (Red, Green, Blue, Cyan, Magenta, Yellow) by using **RGBCMY**.

To open the **COLOUR MANAGEMENT** menu, select from the **ADVANCED MENU** in the **PICTURE** menu, or press the **FUNCTION** button as a shortcut.

In the factory default setting, COLOUR
 MANAGEMENT is set as a default for the FUNCTION
 button

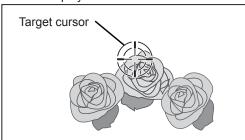


Create a new profile

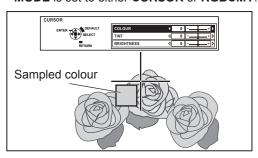
 Adjusting the selected colour with the CURSOR mode.

Select a colour and adjust **COLOUR**, **TINT** and **BRIGHTNESS**.

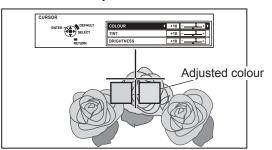
- Press ▲ ▼ to select START ADJUSTMENT and press the ENTER button.
 - The projected image is captured, and the target cursor is displayed.
 - When the LOG is fully stored, the target cursor will not be displayed.



- Move the cursor with ▲ ▼ ◀ ► to the required place to select a colour and press the ENTER button.
 - The colour at the centre of the target cursor is sampled and the sample box is displayed in the left of the cursor.
 The menu items are displayed on the screen.
 - You may fail to adjust when the very edge point of the projection area is selected as sample.
 - You can create a profile only when ADJUSTMENT MODE is set to either CURSOR or RGBCMY.



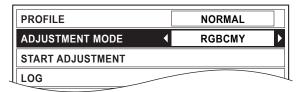
- 4. Press ▲ ▼ to select a menu item and the ◀ ▶ to adjust each item level.
 - The result box is displayed on the right of the cursor and shows the adjusted colour.



COLOUR	Adjust the vividness of the colour. Setting range: -30 to +30
TINT	Adjust the colour tone. Setting range: −30 to +30
BRIGHTNESS	Adjust the brightness of the colour. Setting range: -20 to +20

- 5. Press the **ENTER** button to store the adjusted result.
 - "PROCESSING" is displayed for a few seconds and the result is stored in LOG.
 - You can store up to 8 logs under LOG for each PICTURE MODE setting.
- 6. Press the **MENU** or **RETURN** button to return to the previous menu.
 - Repeat the steps above to store more adjustment.
 - When the LOG is fully stored, the screen will be switched automatically to the COLOUR MANAGEMENT menu.
- Adjusting the selected colour with the RGBCMY mode.

Select the colour from 6 different colour types (RED, GREEN, BLUE, CYAN, MAGENTA, YELLOW) and adjust COLOUR, TINT and BRIGHTNESS.

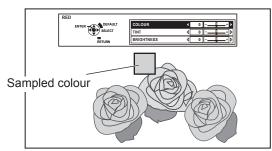


- 2. Press ▲ ▼ to select **START ADJUSTMENT** and press the **ENTER** button.

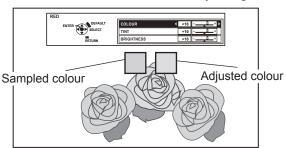
3. Press ▲ ▼ to select your desired colour and press the ENTER button.

RED	
GREEN	
BLUE	
CYAN	
MAGENTA	
YELLOW	

 The sample box and the menu items are displayed on the screen.



- 4. Press ▲ ▼ to select a menu item and the ◀ ▶ to adjust each item level.
 - The result box is displayed on the right of the sample box and shows the adjusted colour.
 - Both the sampled and adjusted colour indicated in the RGBCMY mode are shown only as a guide.



COLOUR	Adjust the vividness of the colour. Setting range: −30 to +30
TINT	Adjust the colour tone. Setting range: −30 to +30
BRIGHTNESS	Adjust the brightness of the colour. Setting range: −20 to +20

- Press the ENTER button to store the adjusted result.
 - "PROCESSING" is displayed for a few seconds and the result is stored in LOG.
 - You can store up to 6 different colour adjusted images under LOG for each PICTURE MODE setting.
- 6. Press the **MENU** or **RETURN** button to return to the previous menu.
 - Repeat the steps above to store more adjustments.

 Managing the stored logs which are created through the CURSOR mode.

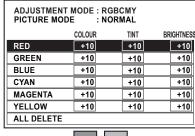
You can edit or delete the stored logs of the selected **PICTURE MODE**.

- Press ▲ ▼ to select LOG and press the ENTER button.
 - The **LOG** menu is displayed.

ADJUSTMENT MODE : CURSOR PICTURE MODE : NORMAL				
	COLOUR	TINT	BRIGHTNESS	
POINT1	+10	+10	+10	
POINT2	+10	+10	+10	
POINT3	+10	+10	+10	
POINT4	+10	+10	+10	
POINT5	+10	+10	+10	
POINT6	+10	+10	+10	
POINT7	+10	+10	+10	
POINT8	+10	+10	+10	
ALL DELETE				

Sampled colour — Adjusted colour

- 2. Press ▲ ▼ to select the required log from 1 8 or ALL DELETE, and press the ENTER button.
 - Select CHANGE to edit the log.
 The CURSOR mode is displayed and you can readjust the colour.
 - Select **DELETE** to delete the log.
 The confirmation screen will be displayed. Select **OK** to delete.
 - When you select ALL DELETE, the "DELETE ALL LOG." screen is displayed. Select OK to delete all logs. The PROFILE setting will be set to NORMAL.
- Managing the stored logs which are created through the RGBCMY mode.



Sampled colour — Adjusted colour

- Press ▲ ▼ to select LOG and press the ENTER button.
 - The **LOG** menu is displayed.
- Select the required log from 6 different colours (R, G, B, C, M, Y) or ALL DELETE, and press the ENTER button.
 - Select CHANGE to edit the log.
 The RGBCMY mode is displayed and you can readjust the colour.
 - Select **DELETE** to delete the log.
 The confirmation screen will be displayed. Select **OK** to delete.
 - When you select ALL DELETE, the "DELETE ALL LOG." screen is displayed. Select OK to delete all logs. The PROFILE setting will be set to NORMAL.

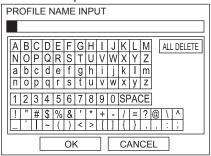
Saving a log setting as a profile

Return to the **COLOUR MANAGEMENT** menu and save the stored log as a profile. Make sure that the **PICTURE MODE** is not switched.

- Select the PROFILE SAVE menu and press the ENTER button.
 - The PROFILE SAVE menu is displayed. You can save the profile as USER1, USER2 and USER3.



- Indicated with ★ is in use, and ☆ is empty.
- 2. Press the **ENTER** button to save the profile.
 - The confirmation screen is displayed. Press the ENTER button again to save.
- 3. Name the profile.
 - Use ▲ ▼ ◀ ► to specify the location of the required character to enter and press the ENTER button.
 - You can enter up to 14 characters.



- 4. Repeat step 3 until you finish the text line.
 - Move cursor to ALL DELETE and press the ENTER button to delete all the entered text line.
 - Press the **DEFAULT** button to delete the last entered character or indicated with cursor in the text box.
 - To insert a character in the entered text line, move the cursor to the text box to select the required place and press ▼ then perform step 3.
- 5. Select **OK** and press the **ENTER** button to set the entered text as a name.
 - Press the ENTER button without entering any text to keep the default name.

Deleting the saved profiles

You can delete the profiles from **PROFILE DELETE** menu.

- Select PROFILE DELETE and press the ENTER button
- Press ▲ ▼ to select the required profile or PROFILE
 ALL DELETE and press the ENTER button.
 - The confirmation screen will be displayed and select OK.
- 3. Press the ENTER button.

Changing the profile names

You can change the name of the profiles from the **PROFILE NAME CHANGE** menu.

- Press ▲ ▼ to select PROFILE NAME CHANGE and press the ENTER button.
- 2. Press ▲ ▼ to select the required profile and press the ENTER button.
- 3. Rename the profile.
 - Use ▲ ▼ ◀ ► to specify the location of the required character to enter and press the ENTER button.
- 4. Select **OK** and press the **ENTER** button to set the entered text as a name.

Loading saved profiles

When profiles are loaded under the **PICTURE MODE** setting, you can keep them as you defined until the **PROFILE** is set to **NORMAL**.

- Select the required PICTURE MODE and press the ENTER button.
- Press the COLOUR MANAGEMENT button and select the PROFILE menu.
 - The profile settings of the selected PICTURE MODE will be displayed.
- 3. Select the required profile and press the **ENTER** button.

NORMAL	Return to the default setting of the PICTURE MODE menu.			
USER1				
USER2	Defined profile settings.			
USER3				

NOTE:

- In the CURSOR mode, you can adjust the colours except white, gray and black.
- In the CURSOR mode, if you adjust the exact same colour differently, both will affect each other and you might get unexpected results.
- COLOUR MANAGEMENT will be unable to adjust with the setting of COLOUR1 in PICTURE MODE, when HDMI signal is selected.
- If there is another area, which has an exact same or similar colour with your target in the same screen, all colours will be adjusted as well.
- If you switch the input signal before you save the profile, the setting will be cancelled without notice.

x.v.Colour

You can switch on/off the automatic adjustment system for signals which comply with International Standard xvYCC.

ON: ActiveOFF: Deactive

NOTE:

 x.v.Colour adjustment system is available only with HDMI signals in COLOUR1 of PICTURE MODE menu.

DETAIL CLARITY

You can adjust the detail clarity system levels.

Setting range: 0 to +7

CINEMA REALITY

You can switch the automatic image synchroniser on/off for 24 frames a second images, such as movies. Press ◀ ▶ to select the required setting.

ON: ActiveOFF: Deactive

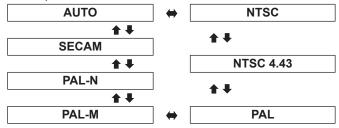
NOTE:

• CINEMA REALITY is effective only with interlace signals.

TV-SYSTEM

When the video signal is changed, the setting switches automatically.

You can switch the setting manually to match the video data. Press ◀ ▶ to cycle through the options.



NOTE:

 AUTO setting will select from NTSC/NTSC 4.43/PAL/ PAL60/PAL-M/PAL-N/SECAM.

RGB/YP_BP_R

The projector will detect the signal from the COMPUTER terminals if the signal is RGB or YP_BP_R . You can turn off the automatic detecting system and switch between RGB and YP_BP_R manually.

AUTO: Automatic detecting system
 RGB: Project as RGB signal
 YPBPR: Project as YPBPR signal

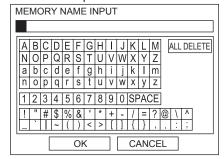
NOTE:

- Available with VGA60, 480i, 576i, 480p, 576p, 1 080/60i, 1 080/50i, 720/60p, 720/50p, 1 080/60p, 1 080/50p only.
- When the input signal is not selected correctly with AUTO setting, select RGB or YP_BP_R manually.

MEMORY SAVE

You can save and name the adjusted **PICTURE** menu settings for instant access from **MEMORY LOAD** menu.

- 1. Adjust the items in **PICTURE** menu.
- Select MEMORY SAVE and press the ENTER button
- 3. Select the required memory setting and press the **ENTER** button.
 - The confirmation screen will be displayed. Select OK and press the ENTER button.
 - Indicated with ★ is in use, and ☆ is empty.
- 4. Name the memory setting.
 - Use ▲ ▼ ◀ ► to specify the location of the required character to enter and press the ENTER button.
 - You can enter up to 16 characters.



- 5. Repeat step 4 until you finish the text line.
 - Move the cursor to ALL DELETE and press the ENTER button to delete all the entered text line.
 - Press the **DEFAULT** button to delete the last entered character or indicated with cursor in the text box.
 - To insert a character in the entered text line, move the cursor to the text box to select the required place and press ▼ then perform step 4.
- Select **OK** and press the **ENTER** button to set the entered text as a name.

NOTE:

• If you leave the text box empty and save, the default memory number will stay as a name.

MEMORY LOAD

You can access the saved settings instantly. See "Loading a saved setting" on page 14.

- 1. Select a setting from **MEMORY 1 16**.
 - Undefined settings will not be selectable.
- 2. Press the **ENTER** button to activate.

NOTE:

 If you have not saved any settings, MEMORY 1 - 16 will not be displayed.

MEMORY EDIT

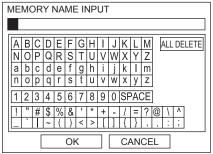
You can edit the named memory settings.

Deleting a memory setting

- Select MEMORY DELETE and press the ENTER button.
- Select the required memory setting and press the ENTER button.
 - If you select ALL DELETE, you can delete all of the saved memory settings.
- 3. Select **OK** in the confirmation screen and press the **ENTER** button.

Changing the name of the memory setting

- Select MEMORY NAME CHANGE and press the ENTER button.
- 2. Select the required memory setting and press the **ENTER** button.
- 3. Rename the memory setting.
 - Use ▲ ▼ ◀ ► to specify the location of the required character to enter and press the ENTER button.
 - You can enter up to 16 characters.



- 4. Repeat step 3 until you finish the text line.
 - Move the cursor to ALL DELETE and press the ENTER button to delete all the entered text line.
 - Press the **DEFAULT** button to delete the last entered character or indicated with cursor in the text box.
 - To insert a character in the entered text line, move the cursor to the text box to select the required place and press ▼ then perform step 3.
- 5. Select **OK** and press the **ENTER** button to set the entered text as a name.

NOTE:

 If you have not saved any settings, MEMORY 1 - 16 will not be displayed.

SIGNAL MODE

The current selected signal will be displayed. This is available with signals from **COMPUTER IN/ COMPONENT IN/HDMI IN** only.

NOTE:

• See "List of compatible signals" in "Technical Information" of the operating instructions.

POSITION menu

Remote control

Control panel





- See "Navigating through the MENU" on page 16.
- See "Menu list" on page 17.

H-POSITION

You can move the projected image horizontally for fine adjustment.

Move left



Move right

V-POSITION

You can move the projected image vertically for fine adjustment.

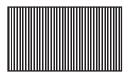
Move down



Move up

DOT CLOCK

If you have interference patterns of the projected image, which is sometimes referred to as moire or noise, you can minimize it by pressing ◀ ► to adjust the clock frequency. (Available with **RGB** signal from **COMPUTER IN** only)



NOTE:

- If the projecting signal's dot clock frequency is higher than 150 MHz, the adjustment may not make a difference.
- DOT CLOCK needs to be adjusted before adjusting the CLOCK PHASE.

CLOCK PHASE

If you require further adjustment for the same reason as the **DOT CLOCK** adjustment, you can fine adjust the timing of the clock. Press ◀ ► to adjust. (Available with signals from **COMPUTER IN/COMPONENT IN** only)

NOTE:

- If the projecting signal's dot clock frequency is higher than 150 MHz, the adjustment may not make a difference.
- Available signals from YP_BP_R:
 1 125 (1 080)/60i, 1 125 (1 080)/50i, 1 125 (1 080)/60p,
 1 125 (1 080)/50p, 1 125 (1 080)/24p, 750 (720)/60p,
 750 (720)/50p.

ASPECT

You can switch the aspect ratio manually when needed.

Aspect ratio depend on signals

Press ◀ ► to cycle through the aspect ratio options. The cycle pattern depends on the connected signals.

VIDEO/ S-VIDEO	4:3 → 16:9 → s16:9 → JUST → ZOOM → AUTO NTSC, NTSC 4.43, PAL-M, PAL60 signals 4:3 → 16:9 → s16:9 → 14:9 → ZOOM1 → ZOOM2 → JUST PAL, PAL-N, SECAM signals			
HDMI	4:3 → 16:9 → s16:9 → H-FIT → V-FIT → ZOOM 1 125 (1 080)/50i, 1 125 (1 080)/60i, 1 125 (1 080)/50p, 1 125 (1 080)/60p, 1 125 (1 080)/24p, 750 (720)/50p and 750 (720)/60p signals			
	4:3 → 16:9 → s16:9 → JUST → ZOOM 525p (480p) signal 4:3 → 16:9 → s16:9 → 14:9 → ZOOM1 → ZOOM2 → JUST			
COMPUTER (RGB)/ COMPONENT (YPBPR)	625p (576p) signal 4:3 → 16:9 → s16:9 → 14:9 → ZOOM1 → ZOOM2 → JUST 625i (576i), 625p (576p) signals 4:3 → 16:9 → s16:9 → JUST → ZOOM 525i (480i), 525p (480p) signals 4:3 → 16:9 → s16:9 → H-FIT → V-FIT			
	→ ZOOM 1 125 (1 080)/50i, 1 125 (1 080)/60i, 1 125 (1 080)/50p, 1 125 (1 080)/60p, 1 125 (1 080)/24p, 750 (720)/50p, 750 (720)/60p signals			

Aspect ratio options and projection example

If you apply the aspect ratio options to the projected image, the result will be as follows. The result may differ due to the input signals.

VIDEO/S-VIDEO/COMPUTER/COMPONENT/HDMI

Not available with 1 125 (1 080)/50i, 1 125 (1 080)/60i, 1 125 (1 080)/50p, 1 125 (1 080)/60p, 1 125 (1 080)/24p, 750 (720)/50p and 750 (720)/60p signals.

	100 (120)/00p and 100 (120)/00p aig.	4:3	Squeeze signal	16:9 Letter box	14:9 Letter Box	2.35:1 Cinescope
Original size			00 00	00 00		000 000
4:3	Projects at 4:3.		00 00	00 00		000 000
16:9	Adjusts horizontally to 16:9.		00 00	00000		000 000
JUST	Adjusts horizontally to fit 16:9. Closer to edge, more enlarged. Not available with COMPUTER signals.		00 00	00 00		000 000
ZOOM/ ZOOM1	Adjusts to 16:9 size while preserving original ratio. Escape the menu mode and press ▲ ▼ to adjust vertically. (Not available with HDMI signal.)			00 00		000 000
ZOOM2	Adjusts to cinescope size not including letter box. Escape the menu mode and press ▲ ▼ to adjust vertically. (Not available with HDMI signal.)					100000
14:9	Adjusts to 14:9.		00 00	00 00		000 000

COMPUTER/COMPONENT/HDMI

Available with 1 125 (1 080)/50i, 1 125 (1 080)/60i, 1 125 (1 080)/50p, 1 125 (1 080)/60p, 1 125 (1 080)/24p, 750 (720)/50p and 750 (720)/60p signals.

() ()					
Original size		4:3	16:9	Cinescope	
			00 00	000 000	
H-FIT	Adjusts horizontally to 16:9.		00000	000 000	
V-FIT	Adjusts to 16:9 vertically. Escape and press ▲ ▼ to scroll the image to adjust the edge vertically. (Not available with HDMI signal.)			000 000	
ZOOM	Adjusts to 16:9 size with preserving original ratio. Escape the menu mode and press ▲ ▼ to adjust vertically.			000 000	

- If you project an image with an unmatched aspect ratio, the image may distort or some portions may be cropped. Select an aspect ratio which preserves the intention of the image creator.
- The order of aspect type is defined not only by the input method but also by the input signals. See "List of compatible signals" in "Technical Information" of the operating instructions.
- If you project a copyrighted image enlarged or distorted by using **ASPECT** function in commercial use in a public place, such as a restaurant or hotel, you might infringe on the copyright of the creator which is protected by copyright law.

POSITION menu

WSS

WSS (Wide Screen Signalling) detects if a PAL/625p (576p)/625i (576i) signal is input and that signal has an identification signal, and switch the aspect ratio to required setting automatically. You can switch the system off manually. (Available with VIDEO/S-VIDEO/COMPONENT signals only)

OVER SCAN

If the 4 edges of an image is partly dropped, you can use this function to adjust and project it properly.

- Setting range: 0 to +10
- OVER SCAN is not available with COMPUTER signals.

Shrink



Enlarge

KEYSTONE

If the projector is aligned non-perpendicularly to the screen, or if the projection screen has an angled surface, you can correct the keystone vertically.

Image	Operation
	A BITER D
	A BITER D

Setting range: −32 to +32

NOTE:

- You can correct the distortion ± 30 degrees from the vertical plane. For a better quality image, installing the projector with minimum distortion is recommended.
- Some distortion may be retained for the lens shift adjustment.
- The distortion of the main menu screen is not correctable.
- The result of the keystone correction will affect the aspect ratio and the size of the image.

AUTO SETUP

You can adjust **V-POSITION**, **H-POSITION**, **DOT CLOCK** and **CLOCK PHASE** automatically when the computer signal is detected. Press the **ENTER** button to adjust these at the same time.

LENS CONTROL

Remote control

Control panel





- See "Navigating through the MENU" on page 16.
- See "Menu list" on page 17.

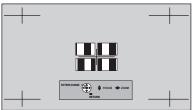
NOTE:

- The saved lens memory adjustment accuracy is not guaranteed.
- If the memorised ZOOM/FOCUS adjustment is not accurate enough, adjust the ZOOM/FOCUS menu again.
- If the power supply is stopped while loading or saving the lens memory, saved adjusted settings may differ from the original after restarting the projector. Adjust the ZOOM/FOCUS menu again.

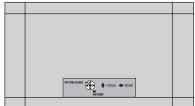
ZOOM/FOCUS

You can use the 2 different test patterns to adjust the focus and zoom of the image.

- 1. Press the **ENTER** button to display test pattern 1.
 - Press ▲ ▼ to adjust the focus and ◀ ► to adjust the zoom.



- 2. Press the **ENTER** button to display test pattern 2.
 - Press ▲ ▼ to adjust the focus and ◀ ► to adjust the zoom.



- Press the ENTER button to display the projected image.
 - You can confirm the adjustment is fit to the projected image.
- Press the MENU or RETURN button to return to the previous menu, or press repeatedly to escape the menu mode.

NOTE:

- When the projector and/or the screen is tilted, adjust the focus at the centre of the image. The upper and lower edge might be out of focus.
- When the image is distorted in keystone, adjust the KEYSTONE in POSITION menu. See "KEYSTONE" on page 34.

LENS MEMORY LOAD

You can access the saved lens control settings (**ZOOM**/**FOCUS**, **H/V-AREA POSITION**, and **MASKING AREA**) instantly.

- 1. Select a setting from LENS MEMORY 1 6.
- 2. Press the **ENTER** button to activate.

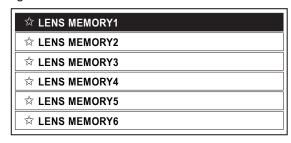
LENS MEMORY1	
LENS MEMORY2	
LENS MEMORY3	
LENS MEMORY4	
LENS MEMORY5	
LENS MEMORY6	

NOTE:

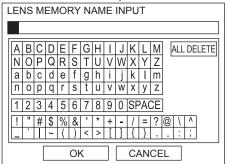
- The option that contains no saved adjustment will not be displayed.
- If there is no saved setting, the LENS MEMORY LOAD menu will not be selectable.

LENS MEMORY SAVE

You can save and name the adjusted lens control settings in the **LENS MEMORY**.



- Indicated with ★ is in use, and ☆ is empty.
- Adjust ZOOM/FOCUS, H/V-AREA POSITION and MASKING AREA.
- 2. Select the **LENS MEMORY SAVE** and press the **ENTER** button.
- Select the required memory setting and press the ENTER button.
- 4. The confirmation screen will be displayed. Select **OK** and press the **ENTER** button.
- 5. Name the lens memory setting.
 - Use ▲ ▼ ◀ ► to specify the location of the required character to enter and press the ENTER button.



LENS CONTROL

- 6. Repeat step 5 until you finish the text line.
 - You can enter up to 16 characters.
 - Move the cursor to ALL DELETE and press the ENTER button to delete all the entered text line.
 - Press the DEFAULT button to delete the last entered character or indicted with the cursor in the text box.
 - To insert a character in the entered text line, move the cursor to the text box to select the required place and press ▼ then perform step 5.
- Select **OK** and press the **ENTER** button to set the entered text as a name.

NOTE:

• If you leave the text box empty and save, the default memory number will stay as a name.

LENS MEMORY EDIT

You can edit saved lens memory settings.

Deleting a memory setting

- Select LENS MEMORY DELETE and press the ENTER button.
- 2. Select the required lens memory setting and press the **ENTER** button.
- 3. If you select **ALL DELETE**, you can delete all of the saved lens memory settings.
- 4. Select **OK** in the confirmation screen and press the **ENTER** button.

Changing the name of the memory setting

- Select LENS MEMORY NAME CHANGE and press the ENTER button.
- 2. Select the required lens memory setting and press the **ENTER** button.
- 3. Rename the lens memory setting.
 - Use ▲ ▼ ◀ ► to specify the location of the required character to enter and press the ENTER button.
- 4. Repeat step 3 until you finish the text line.
 - You can enter up to 16 characters.
 - Move the cursor to ALL DELETE and press the ENTER button to delete all the entered text line.
 - Press the **DEFAULT** button to delete the last entered character or indicted with the cursor in the text box.
 - To insert a character in the entered text line, move the cursor to the text box to select the required place and press ▼ then perform step 3.
- 5. Select **OK** and press the **ENTER** button to set the entered text as a name.

NOTE:

- The option that contains no saved adjustment will not be displayed
- If you leave the text box empty and save, the default memory name will stay as a name.

AUTO SWITCHING

You can automatically load the saved lens memory settings which are set for each screen size. This function is able to identify the wide signal* or 16:9/4:3 and recalls the lens memory settings automatically.

* Wide signal includes: 2.35:1, 2.40:1, 2.50:1, 2.55:1

Press the **ENTER** button to display the **AUTO SWITCH** menu.



- Press ▲ ▼ to select the IMAGE DETECTION in the AUTO SWITCH menu.
- Press ◀ ► to select your required LENS MEMORY for AUTO SWITCHING.
 - The LENS MEMORY setting which has been selected for 2.35:1 IMAGE DETECTION is loaded after a given period of time once the input signal switches from 16:9/4:3 to 2.35:1.
 - The LENS MEMORY setting which has been selected for 16:9 IMAGE DETECTION is loaded after a given period of time once the input signal switches from 2.35:1 to 16:9/4:3.
 - Only saved LENS MEMORY data will appear in the IMAGE DETECTION item.
 - If **OFF**, the auto-identify will not be performed.
 - When selecting the ZOOM/ZOOM1/ZOOM2/V-HIT in the ASPECT setting, this function will be invalid.
 - When displaying the menu or test pattern, also when performing the PICTURE menu, auto-identify will be invalid.

NOTE:

In the following conditions, it might take longer to identify or it might be unable to identify the correct image.

- If there is noise in the picture or external equipment generate noise, or depends on the picture images.
- If the input signal level from the external equipment is not set to the suggested value range. Please adjust the WAVEFORM MONITOR settings. See page 21.
- If the screen position is not adjusted well. Please adjust the POSITION settings. See page 32.

H-AREA POSITION

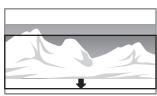
You can move the frame area horizontally, such as aligning the right or left frame edge to the screen edge. Press ◀ ▶ to move the frame.



● Setting range: -63 to +63

V-AREA POSITION

You can move the frame area vertically, such as aligning the top or bottom frame edge to the screen edge. Press ◀ ▶ to move the frame.



Setting range: -63 to +63

LEFT MASKING AREA

You can place a blank (mask) area in the left side edge on the screen.

Less



More

Setting range: 0 to +70

RIGHT MASKING AREA

You can place a blank (mask) area in the right side edge on the screen.

Less



More

Setting range: 0 to +70

UPPER MASKING AREA

You can place a blank (mask) area in the upper side edge on the screen.

Less



More

Setting range: 0 to +70

LOWER MASKING AREA

You can place a blank (mask) area in the lower side edge on the screen.

Less



More

Setting range: 0 to +70

NOTE:

- · If it is set to 0, each MASKING will be invalid.
- The MASKING AREA function will be invalid when adjusting the COLOUR MANAGEMENT or SPLIT ADJUST settings and displaying the TEST PATTERN or WAVEFORM MONITOR, and no signal is detected.
- You can not adjust the MASKING if keystone correction is performed.

FUNCTION BUTTON

Remote control

Control panel





- See "Navigating through the MENU" on page 16.
- See "Menu list" on page 17.

FUNCTION BUTTON

You can assign certain menu option to the **FUNCTION** button as a shortcut. Press ▲ ▼ ◀ ▶ to select the required menu options and press the **ENTER** button.

Assignable functions

Functions	Reference page		
COLOUR MANAGEMENT*1	page 27		
GAMMA ADJUSTMENT	page 23		
SPLIT ADJUST	page 22		
WAVEFORM AUTO ADJUST	page 21		
FRAME CREATION	page 26		
NORMAL			
DYNAMIC			
COLOUR1			
COLOUR2	page 20		
CINEMA1			
CINEMA2			
CINEMA3			
TEST PATTERN	page 41		
OPERATE OTHER DEVICE	Booklet		
ASPECT	page 32		
AUTO SETUP	page 34		
CONTRAST	200		
BRIGHTNESS	page 20		
BLANK	page 38		
HDMI 1 IN			
HDMI 2 IN			
HDMI 3 IN			
COMPUTER IN	page 15		
COMPONENT IN			
S-VIDEO IN			
VIDEO IN			

^{*1.} The underlined item is factory default setting.

BLANK function

You can stop the projection temporarily for electrical power save while the input source is stopped. Press any button to escape from the blank mode.

OPTION menu

Remote control

Control panel





- See "Navigating through the MENU" on page 16.
- See "Menu list" on page 17.

INPUT GUIDE

When you change the input method, the guidance appears in the upper right corner of the screen. The following display methods are available. Press ◀ ▶ to cycle through the options.

Options	Function	
DETAILED	Display the input method graphically. The INPUT GUIDE will disappear after 3 seconds without any operation.	
SIMPLE	Display the input method by text. The INPUT GUIDE will disappear after 3 seconds without any operation.	
OFF	Turn off the guidance.	

OSD DESIGN

You can change the background colour of the menu. Press ◀ ▶ to cycle through the options.

• TYPE1 Semi transparent black

• TYPE2 Solid blue

• TYPE3 Semi transparent dark blue

OSD POSITION

You can change the displaying position of the menu. Press ◀ ▶ to cycle through the options.

UPPER LEFT UPPER CENTRE UPPER RIGHT

CENTRE

LOWER LEFT LOWER CENTRE

LOWER RIGHT

BACK COLOUR

You can choose a screen colour from **BLUE** or **BLACK** for when the projector is in idle. Press ◀ ▶ to select.

STARTUP LOGO

You can switch the logo on/off that is displayed when starting up the projector. Press ◀ ► to select the required option. **STARTUP LOGO** "Panasonic" will be displayed for 15 seconds.

ON: ActiveOFF: Deactive

AUTO SEARCH

When the projector is turned on, the input terminals are detected and an input signal is selected automatically. You can switch the system on/off. Press ◀ ▶ to cycle through the options.

ON: ActiveOFF: Deactive

NOTE:

 When no signal is detected, the last used input will be selected.

HDMI SIGNAL LEVEL

When an ${\bf HDMI\ IN}$ is selected, you can switch the ${\bf HDMI}$ signal ${\bf NORMAL}$ or ${\bf EXPAND}$ to display the image.

Press ◀ ▶ to select an option.

• NORMAL For general HDMI equipment

• **EXPAND** For HDMI equipment with expanded

signals.

NOTE:

HDMI SIGNAL LEVEL is not available with some equipment.

FRAME RESPONSE

You can minimise the time delay of image displayed for the progressive signals.

NORMAL Prioritise the image qualityFAST Prioritise the frame response

INSTALLATION

When installing the projector, select the projection method according to the projector position. Press ◀ ▶ to cycle through the options. See "Projection method" on page 5.

FRONT/DESK	Setting on a desk/floor and projecting from front	
FRONT/CEILING	Mounting on the ceiling and projecting from front	
REAR/DESK	Setting on a desk/floor and projecting from rear	
REAR/CEILING	Mounting on the ceiling and projecting from rear	

TRIGGER 1/2 SETTING

You can set the input/output function for each **TRIGGER** terminal.

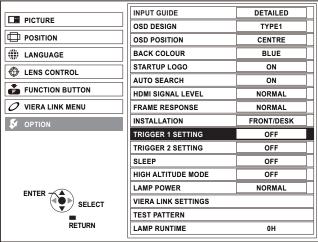
There are 2 functions, INPUT and OUTPUT.

OUTPUT function

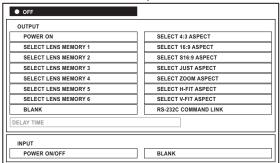
It is possible to control the external equipment which have trigger terminals by transmitting the trigger output signal.

INPUT function

It is possible to control the projector from external equipment by receiving the trigger input signal.



1. Select **TRIGGER 1** or **TRIGGER 2 SETTING** in the **OPTION** menu and press the **ENTER** button.



2. Press ▲ ▼ ◀ ▶ to select your required input/ output function and press the ENTER button.

OFF

Unable to transmit the trigger output signal. It does not work even if trigger input signal is received. (Enable to receive the trigger input signal)

OUTPUT

OPTIONS				
POWER ON	SELECT 4:3 ASPECT*			
SELECT LENS MEMORY 1	SELECT 16:9 ASPECT			
SELECT LENS MEMORY 2	SELECT S16:9 ASPECT*			
SELECT LENS MEMORY 3	SELECT JUST ASPECT			
SELECT LENS MEMORY 4	SELECT ZOOM ASPECT*			
SELECT LENS MEMORY 5	SELECT H-FIT ASPECT			
SELECT LENS MEMORY 6	SELECT V-FIT ASPECT			
BLANK	RS-232C COMMAND LINK			

When the selected trigger item is chosen in the projector menu, 12 V is outputted.

BLANK

When **BLANK** is activated, output is 12 V, but if the setting is released, output is 0 V.

RS-232C COMMAND LINK

By receiving the command from external equipment, it conforms and outputs 12 V.

 When AUTO is selected in the ASPECT menu, it may automatically select 4:3/16:9/ZOOM ASPECT depending on the input signal. When this matches the aspect selected in the trigger menu, 12 V is automatically output from the trigger terminal, but if other aspects are selected, output is 0 V.

INPUT

OPTIONS			
POWER ON/OFF BLANK			

POWER ON/OFF

If the trigger input signal from the external equipment is changed from 0 V to 12 V, the projector power will be switched on. And if it is changed from 12 V to 0 V, the power will be switched off.

• BLANK

If the trigger input signal from the external equipment is changed from 0 V to 12 V, the screen will go blank. And if it is changed from 12 V to 0 V, the **BLANK** setting will be released.

- Press ▲ ▼ ◀ ▶ to move the cursor to DELAY
 TIME and press ◀ ▶ to set the delay time for the
 trigger output signal.
 - It is possible to delay the trigger output signal (12 V).
 (Only available if Trigger OUTPUT item is selected.)

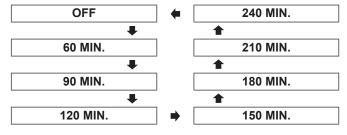
NOTE:

- This trigger terminal output is used for control from external equipment only.
 - You should not use it as the power source for external equipment.
- During start up and cooling off period, projector will not accept the trigger input signal.
 - Please input the trigger signal only after it is in the projection or standby mode.
- The trigger control is not available to use for the RS-232C command during the standby mode.

SLEEP

You can select the required duration of time and set the off timer to turn off the power of the projector automatically. 3 minutes before turn-off, the countdown of minutes will be displayed in the lower right corner.

Press ◀ ▶ to cycle through the options.



HIGH ALTITUDE MODE

If you use the projector at high elevation, the **HIGH ALTITUDE MODE** setting need to be **ON** to set the fan speed high. Press ◀ ▶ to select the required option.

OFF The fan speed is low.ON The fan speed is high.

NOTE:

- At 1 400 2 700 m (4 593 8 858 ft) above sea level, the setting must be ON.
- The loudness of fan noise depends on the HIGH ALTITUDE MODE setting.

LAMP POWER

You can adjust the power of the lamp to save on electricity, prolong the lamp life and reduce the fun noise.

Options	Function
NORMAL	When higher luminance is required.
ECO-MODE	When lower luminance is sufficient.

NOTE:

 When no input signal is detected, the function is disabled.

VIERA LINK SETTINGS

You can set the VIERA Link settings. See "VIERA Link Connection" on page 45.

TEST PATTERN

You can display the 5 different **TEST PATTERN** images for your setting confirmation.

Press the **ENTER** button to switch to the other patterns.

LAMP RUNTIME

You can check how long the lamp has been used.

NOTE:

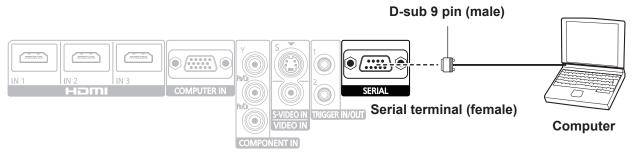
- When LAMP POWER is set to NORMAL; and LAMP RUNTIME has reached 1 800 hours, LAMP RUNTIME menu will inform the replacing time by flashing the red and gray colour.
- LAMP RUNTIME is a relevant matter for lamp unit replacement timing. See "Replacing the lamp unit" in "Care and Replacement" of the operating instructions.

Technical Information

Serial terminal

The serial connector which is on the connector panel of the projector conforms to the RS-232C interface specification, so that the projector can be controlled by a personal computer which is connected to this connecter.

Connection



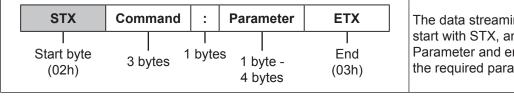
Pin assignments and signal names

	Pin No.	Signal name	Contents
	1)		NC
	2	TXD	Transmitted data
6 7 8 9 1 2 3 4 5	3	RXD	Received data
	4		NC
	5	GND	Earth
	6		NC
	7	RTS	Connected internally
	8	CTS	Connected internally
	9		NC

Communication settings

Signal level	RS-232C	Character length	8 bits
Sync. method	Asynchronous	Stop bit	1 bit
Baud rate	9 600 bps	X parameter	None
Parity	None	S parameter	None

Basic format



The data streaming from the computer will start with STX, and proceed to Command, Parameter and end with ETX. You can add the required parameter.

- The projector can not receive any command for 10 seconds after the lamp is switched on. Wait 10 seconds before sending the command.
- If sending multiple commands, check that a response has been received from the projector for one command before sending the next command.
- When a command which does not require parameters to be sent, the colon (:) is not required.
- If an incorrect command is sent from the personal computer, the ER401 command will be sent from the projector to the personal computer.

Technical Information

Cable specifications (When connected to a personal computer)

Projector 6

PC (DTE)

Control commands

Command	Control contents	Remarks		
PON	POWER ON	In standby mode, all commands other than the PON command are ignored. The PON command is ignored during lamp ON control.		
POF	POWER OFF	If a PON command is received while the cooling fan is operating after the lamp has switched off, the lamp is not turned back on again straight away in order to protect the lamp.		
IIS	INPUT	CP1 = COMPONENT IN SVD = S-VIDEO IN VID = VIDEO IN HD1 = HDMI1 IN HD2 = HDMI2 IN HD3 = HDMI3 IN RG1 = COMPUTER IN		
OMN	MENU	Displays the main menu.		
OEN	ENTER	Activates the selected items in the menu mode.		
ОВК	RETURN	Returns to the previous menu or escaping from the menu mode.		
OCU/OCD/ OCL/OCR	Navigation buttons	OCU = ▲ cursor OCD = ▼ cursor OCR = ▶ cursor		
OLE	LENS	Same function as the LENS button on the remote control.		
OST	DEFAULT	Resets to the factory default setting. (page 14)		
OFZ	FREEZE	Freezes the projected screen. 0 = OFF		
FC1	FUNCTION BUTTON	Activates the function that is assigned to the FUNCTION button of the remote control.		
ООТ	SLEEP	Sets the duration of time to turn off the power automatically. (See "SLEEP" on page 41.) 0 = OFF 1 = 60 min. 2 = 90 min. 3 = 120 min. 4 = 150 min. 5 = 180 min. 6 = 210 min. 7 = 240 min.		
OSH	BLANK	Turns off the projection temporarily. Sends the command to switch between ON and OFF. Do not send the command consecutively.		
OVM	PICTURE	Activates the PICTURE menu. Send the command to switch menu items. (page 13)		
OWM	WAVEFORM	Activates the WAVEFORM. (page 14) 0 = OFF 1 = FULL SCAN (Y) 2 = FULL SCAN (R) 3 = FULL SCAN (G) 4 = FULL SCAN (B) 8 = SINGLE LINE SCAN (R) 7 = SINGLE LINE SCAN (G) 8 = SINGLE LINE SCAN (B)		
VS1	ASPECT	Switches the aspect ratio. (page 32)		
VPM	PICTURE MODE	Switches the PICTURE MODE. (page 13) NOR = NORMAL DYN = DYNAMIC CL1 = COLOUR1 CL2 = COLOUR2 CN1 = CINEMA1 CN2 = CINEMA2 CN3 = CINEMA3		
ОММ	MEMORY LOAD	Same function as the MEMORY LOAD button on the remote control.		
DPA	PICTURE ADJUSTMENT	Same function as the PICTURE ADJUSTMENT button on the remote control.		
DCM	COLOUR MANAGEMENT	Displays the COLOUR MANAGEMENT menu.		
	VIERA LINK	Same function as the VIERA Link button on the remote control.		
OVL	VILIXALINIX			

Technical Information

Command	Control contents	Remarks		
	LENS MEMORY LOAD	Loads LENS MEMORY. LMLI0 = +00000 = LENS MEMORY 1 LMLI0 = +00002 = LENS MEMORY 3 LMLI0 = +00004 = LENS MEMORY 5	LMLI0 = +00001 = LENS MEMORY 2 LMLI0 = +00003 = LENS MEMORY 4 LMLI0 = +00005 = LENS MEMORY 6	
		Sets Y ADJUST. (OUTPUT) AGOS0 = p1p2d1d2d3d4 p1p2 = POINT (01 - 09)	d1d2d3d4 = OUTPUT (0000 - 0255)	
		Sets R ADJUST. (OUTPUT) AGOS1 = p1p2d1d2d3d4 p1p2 = POINT (01 - 09)	d1d2d3d4 = OUTPUT (0000 - 0255)	
VXX	GAMMA ADJUSTMENT	Sets G ADJUST. (OUTPUT) AGOS2 = p1p2d1d2d3d4 p1p2 = POINT (01 - 09)	d1d2d3d4 = OUTPUT (0000 - 0255)	
		Sets B ADJUST. (OUTPUT) AGOS3 = p1p2d1d2d3d4 p1p2 = POINT (01 - 09)	d1d2d3d4 = OUTPUT (0000 - 0255)	
		Sets GAMMA ADJUSTMENT. (INPUT) AGIS0 = p1p2d1d2d3 p1p2 = POINT (01 - 09)	d1d2d3 = INPUT (001 - 099)	
	TRIGGER 1 (OUTPUT)	Switches TRIGGER 1 (OUTPUT) when RS-232C COMMAND LINK is set in the TRIGGER 1 SETTING menu. TROI0 = +00000 = LOW TROI0 = +00001 = HIGH		
	TRIGGER 2 (OUTPUT)	Switches TRIGGER 2 (OUTPUT) when RS-232C COMMAND LINK is set in the TRIGGER 2 SETTING menu. TROI1 = +00000 = LOW TROI1 = +00001 = HIGH		

Inquiry commands

Command	Control contents	Parameter		
QPW	Power status	000 = OFF 001 = ON		
QFZ	FREEZE status	0 = OFF		
QIN	INPUT signal status	CP1 = COMPONENT IN SVD = S-VIDEO IN VID = VIDEO IN HD1 = HDMI1 IN HD2 = HDMI2 IN HD3 = HDMI3 IN RG1 = COMPUTER IN		
QOT	OFF TIMER status	0 = OFF 1 = 60 min. 2 = 90 min. 3 = 120 min. 4 = 150 min. 5 = 180 min. 6 = 210 min. 7 = 240 min.		
QPM	PICTURE MODE status	NOR = NORMAL DYN = DYNAMIC CL1 = COLOUR1 CL2 = COLOUR2 CN1 = CINEMA1 CN2 = CINEMA2 CN3 = CINEMA3		
QSH	BLANK status	0 = OFF 1 = ON		
QWM	WAVEFORM status	0 = OFF 1 = FULL SCAN (Y) 2 = FULL SCAN (R) 3 = FULL SCAN (G) 4 = FULL SCAN (B) 5 = SINGLE LINE SCAN (R) 6 = SINGLE LINE SCAN (R) 7 = SINGLE LINE SCAN (G) 8 = SINGLE LINE SCAN (B)		
QVX	GAMMA ADJUSTMENT status	AGOS0 = p1p2d1d2d3d4 p1p2 = POINT (01 - 09) AGOS1 = p1p2d1d2d3d4 p1p2 = POINT (01 - 09) AGOS2 = p1p2d1d2d3d4 p1p2 = POINT (01 - 09) AGOS2 = p1p2d1d2d3d4 p1p2 = POINT (01 - 09) AGOS3 = p1p2d1d2d3d4 p1p2 = POINT (01 - 09) AGOS3 = p1p2d1d2d3d4 p1p2 = POINT (01 - 09) AGOS3 = p1p2d1d2d3d4 p1p2 = POINT (01 - 09) AGIS0 = p1p2d1d2d3 p1p2 = POINT (01 - 09) d1d2d3d = INPUT (001 - 099)		

VIERA Link Connection

VIERA Link (HDAVI Control™) connects projector and the equipment with VIERA Link function, and enables easy control of the home theatre equipment using the projector remote control.

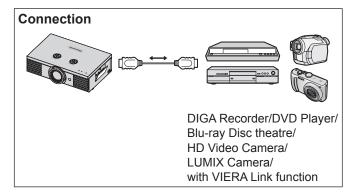
• This projector supports "HDAVI Control 4" function. But available features depends on the connected equipment's version of HDAVI Control. Please refer to the manual of the equipment to confirm the version.

Summary of VIERA Link features

VIERA Link (HDMI connection only)

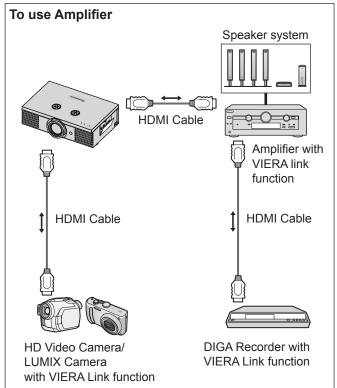
Connected equipment Feature	D10 4 D 1	DVD Player/ Blu-ray Disk Player with VIERA Link function	HD Video Camera/ LUMIX Camera with VIERA Link function
Easy playback	0	0	0
Power on link	0	0	0
Power off link	0	0	0
Reduce unnecessary power consumption in standby	O ^{*2}	O ⁻²	-
Auto standby for unnecessary equipment	O*1	O*1	-
Control the menu of the connected equipment by projector remote control	O*1	O*1	O*1
Speaker control	_	_	_

- *1. Available with equipment which has "HDAVI Control 2 or later" function.
- *2. Available with equipment which has "HDAVI Control 4" function.



NOTE:

- VIERA Link can only be used with one display (projector, TV, etc).
- VIERA Link function features may be available even with other manufacturers' equipment supporting HDMLCEC.
- Some operations may not be available depending on the equipment. In this case, use its own remote control to operate the equipment.
 - (The coloured buttons operations, such as changing the date of TV program for Blu-ray Disc Recorder cannot be controlled by the projector remote control.)



VIERA Link Connection

VIERA Link "HDAVI Control™"

Connections to the equipment (DIGA Recorder, HD Video Camera, Player theatre, Amplifier, etc.) with HDMI cables allow you to interface them automatically.

These features are limited to models incorporating "HDAVI Control" and "VIERA Link".

- Some functions are not available depending on the equipment's version of HDAVI Control.
 Please confirm the connected equipment's version of HDAVI Control.
 But some functions will not be able to perform even if the versions are the same.
- VIERA Link "HDAVI Control", based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added.
 As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be guaranteed.
- Please refer to individual manuals for other manufacturers' equipment supporting Link function.
- About applicable Panasonic equipment, consult your local Panasonic dealer.

Preparations

- Use fully wired HDMI compliant cable. Non-HDMI-compliant cables cannot be utilised.
- Set up the connected equipment.
 - ⇒ Switch the connected equipment ON. Set VIERA LINK ON in the Setup Menu.

(Please read the manual of the equipment for these setup.)

- Set up the projector
 - ⇒ Switch the projector ON.

Select the input mode to HDMI1, HDMI2 or HDMI3, and make sure that an image is displayed correctly.

Select VIERA LINK SETTINGS in the OPTION menu.

If the VIERA LINK is set to ON, you need to select OFF first, and then switch to ON again to activate the ON setting.

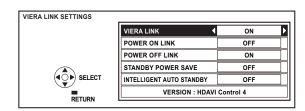
NOTE:

This setup should be done each time when the following conditions occur:

- · When using for the first time
- · When adding or reconnecting equipment
- When changing setup

Option menu

Select **VIERA LINK SETTINGS** in the **OPTION** menu for the **VIERA Link** settings.



Available Features

Easy playback

Automatic Input Switching - When the connected equipment is operated, input mode is switched automatically.

POWER ON LINK

Set POWER ON LINK "ON" in the Setup Menu to use this function.

When the connected equipment is turned ON, the projector which has been linked with the connected equipment is automatically turned ON.

POWER OFF LINK

Set POWER OFF LINK "ON" in the Setup Menu to use this function.

When the projector is turned OFF and it is in standby mode, the connected equipment is also automatically set to Standby.

- This function will work even if the projector enters standby mode automatically by **SLEEP** function.
- Reduce unnecessary power consumption in standby (STANDBY POWER SAVE) Set STANDBY POWER SAVE "ON" in the Setup Menu to use this function.

The power consumption in standby mode of the connected equipment is lowered in synchronization when the projector is turned OFF to reduce power consumption.

- This function will work when **POWER OFF LINK** is set to **ON**.
- Auto standby for unnecessary equipment (INTELLIGENT AUTO STANDBY) Set INTELLIGENT AUTO STANDBY "ON (WITH REMINDER)" or "ON (NO REMINDER)" in the Setup Menu to use this function.

When the projector is ON, non-input selected connected equipment goes into standby mode automatically to reduce the power consumption.

• If you select **ON (WITH REMINDER)**, the on screen message will be displayed to be noticed before this function is activated.

NOTE:

POWER ON LINK

- Depending on the connected equipment, the projector might automatically turn ON when some functions of the connected equipment are performed. (Only when the projector is in standby mode.)
- Due to the projector's characteristics, warm up time is needed before starting the projection, so please be aware that the movie might have already started by the time the projector is fully lit.

POWER OFF LINK

• Depending on the condition of the connected equipment, such as during recording, not all power of the connected equipment will be switched off.

STANDBY POWER SAVE

• Depending on the connected equipment, when the projector is turned on, even if the power consumption setting of the connected equipment is set to the eco-standby mode, it's power consumption is increased so it can startup faster.

INTELLIGENT AUTO STANDBY

This function may not work properly depending on the connected equipment. If required, set to OFF.

Index

A		Н	
ADVANCED MENU	23	H-AREA POSITION	37
ASPECT	32	HDMI IN	
AUTO SEARCH	39	Connection	8
AUTO SETUP	34	HDMI SIGNAL LEVEL	
AUTO SWITCHING	36	H-FIT	
		HIGH ALTITUDE MODE	
В		H-POSITION	
BACK COLOUR	39		
BLANK		1	
BRIGHTNESS		INPUT GUIDE	30
ADVANCED MENU	26	INPUT SELECT	
PICTURE menu		Remote control operation	15
FICTORE IIIelia	20	INSTALLATION	13
0		OPTION menu	20
С		Projection method	
CINEMA REALITY	30	Projection method	ɔ
CLOCK PHASE	32		
COLOUR	20	J	
COLOUR MANAGEMENT	27	JUST	33
COLOUR TEMPERATURE	21		
COMPONENT IN		K	
Connection	8		
COMPUTER IN		KEYSTONE	34
Connection	8		
Connections		L	
CONTRAST		LAMP POWER	11
ADVANCED MENU	26	LAMP RUNTIME	
PICTURE menu		LEFT MASKING AREA	
FICTORE IIIelia	20	LENS	31
D		Remote control operation	12
D		LENS CONTROL	13
DEFAULT		Main menu	25
Remote control operation	14		ა၁
DETAIL CLARITY	30	LENS MEMORY EDIT	20
DOT CLOCK	32		
DYNAMIC IRIS	21	LOAD	
		SAVE	
F		LOWER MASKING AREA	37
FOCUS		М	
LENS CONTROL menu	35		
FRAME CREATION	26	Mains lead	0
FRAME RESPONSE	39	Connecting	
FREEZE		MASKING AREA	
Remote control operation	14	MEMORY EDIT	
Front leg adjusters		MEMORY LOAD	
FUNCTION '		Remote control operation	
Remote control operation	15	MEMORY SAVE	30
FUNCTION BUTTON		Menu	
Main menu	38	Menu list	
Remote control operation		Navigation	16
. toete control operation		MENU	
G		Remote control operation	
		MPEG NR	26
GAMMA	23		
		N	
		NR (Noise Reduction)	26
		, , , , , , , , , , , , , , , , , , , ,	•

O		I	
OPTION menu	39	Technical Information	42
OSD DESIGN	39	TEST PATTERN	
OSD POSITION	39	Throw distance	4
OVER SCAN	34	Throwing angle	5
		TINT	20
P		TRIGGER	
PICTURE	20	OPTION menu	
Remote control operation		TV-SYSTEM	30
PICTURE ADJUSTMENT			
Remote control operation	13	U	
PICTURE MODE		UPPER MASKING AREA	37
Remote control operation		OT LECTION OF THE PROPERTY OF	
POSITION menu		V	
Power	02	•	
Indicator status	10	V-AREA POSITION	
Power cord secure lock		V-FIT	33
Tower cord occurs look		VIDEO IN	
R		Connection	8
		VIERA Link	
Remote control		Connection	
Operating range		Remote control operation	
Operation	13	V-POSITION	32
RETURN			
Remote control function		W	
RGB/YP _B P _R		WAVEFORM MONITOR	21
RIGHT MASKING AREA	37	Remote control operation	
		WSS	
S			
Screen size	4	X	
Calculation methods	4	x.v.Colour	20
SERIAL		x.v.Coloul	28
Basic format		7	
Cable specifications	43	Z	
Communication settings	42	ZOOM	
Connection	42	ASPECT menu	
Control commands	43	LENS CONTROL menu	
Inquiry commands	44	ZOOM1	
Pin assignments		ZOOM2	
SHARPNESS		ZOOM/FOCUS	35
SIGNAL MODE	_		
SLEEP			
SPLIT ADJUST			
STARTUP LOGO	39		
S-VIDEO IN			
Connection	8		

Trademark acknowledgements

- HDAVI Control™ is a trademark.
- VGA and XGA are trademarks of International Business Machines Corporation.
- S-VGA is a registered trademark of the Video Electronics Standards Association.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- The font used in the on-screen displays is a Ricoh bitmap font, which is manufactured and sold by Ricoh Company, Ltd.

All other trademarks are the property of the various trademark owners.

Web Site: http://panasonic.net/avc/projector/
© Panasonic Corporation 2009