Panasonic 8

Operating Instructions High Definition Custom Home Theater Plasma Display

Model No. TH-50VX100E TH-65VX100E





The illustration shown is an image.

Please read these instructions before operating your set and retain them for future reference.

English

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new Plasma Display.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt also, and note down the model number and serial number of your set in the space provided on the rear cover of these instructions.

Visit our Panasonic Web Site http://panasonic.net

Table of Contents

Important Safety Notice	3
Safety Precautions	4
Accessories	
Accessories Supply	7
Remote Control Batteries	7
Connections	8
PC Input Terminals connection	9
SERIAL Terminals connection	10
HDMI connection	11
COMPONENT / RGB connection	11
Power On / Off	12
Initial selections	13
Selecting the input signal	13
Selecting the On-Screen Menu Language	13
Basic Controls	14
Scrolling bar and Test patterns functions	16
EXT. SCALER function	16
ASPECT Controls	17
On-Screen Menu Displays	18
Picture Adjustments	20
Advanced settings	22
Picture Profiles	24
Saving profiles	25
Loading profiles	26
Editing profiles	27
Locking profiles	28
Adjusting Pos. /Size	30

SDI sound Output	Sound Adjustment	32
Reduces screen image retention	SDI sound Output	32
Side Panel Adjustment 3 Specifying the scaler 3 Reduces power consumption 3 Customizing the On-Screen Menu Display 3 Setup for Input Signals 3 Component / RGB-in select 3 YUV / RGB-in select 3 Signal menu 3 XGA Mode 3 Sync 4 SDI Through 4 Input signal display 4 Options Adjustments 4 Watching Videos and DVDs 4 Programming the Remote to Operate Peripheral Equipment 4 Shipping condition 4 Troubleshooting 4 List of Aspect Modes 4 Remote Control Operation / Code List 4 Applicable Input Signals 4	Screensaver (For preventing image retention)	33
Specifying the scaler	Reduces screen image retention	34
Reduces power consumption	Side Panel Adjustment	34
Customizing the On-Screen Menu Display	Specifying the scaler	35
Setup for Input Signals 3 Component / RGB-in select 3 YUV / RGB-in select 3 Signal menu 3 XGA Mode 3 Sync 4 SDI Through 4 Input signal display 4 Options Adjustments 4 Watching Videos and DVDs 4 Programming the Remote to Operate Peripheral 5 Equipment 4 Shipping condition 4 Troubleshooting 4 List of Aspect Modes 4 Remote Control Operation / Code List 4 Applicable Input Signals 4	Reduces power consumption	36
Component / RGB-in select	Customizing the On-Screen Menu Display	37
YUV / RGB-in select 3 Signal menu 3 XGA Mode 3 Sync 4 SDI Through 4 Input signal display 4 Options Adjustments 4 Watching Videos and DVDs 4 Programming the Remote to Operate Peripheral 5 Equipment 4 Shipping condition 4 Troubleshooting 4 List of Aspect Modes 4 Remote Control Operation / Code List 4 Applicable Input Signals 4	Setup for Input Signals	38
Signal menu	Component / RGB-in select	38
XGA Mode	YUV / RGB-in select	38
Sync	Signal menu	39
SDI Through	XGA Mode	39
Input signal display	Sync	40
Options Adjustments	SDI Through	40
Watching Videos and DVDs	Input signal display	40
Programming the Remote to Operate Peripheral Equipment		
Equipment	Watching Videos and DVDs	42
Shipping condition	Programming the Remote to Operate Peripheral	
Troubleshooting	Equipment	43
List of Aspect Modes	Shipping condition	44
Remote Control Operation / Code List 4 Applicable Input Signals4	Troubleshooting	45
Applicable Input Signals4	List of Aspect Modes	46
• • •	Remote Control Operation / Code List	47
Specifications 5	• • •	
	Specifications	51

Trademark Credits

- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, USA.
- SVGA, XGA, SXGA and UXGA are registered trademarks of the video Electronics Standard Association. Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Note:

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

Important Safety Notice

WARNING

- 1) To prevent damage which may result in fire or shock hazard, do not expose this appliance to dripping or splashing.
 - Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)
 - No naked flame sources, such as lighted candles, should be placed on / above the set.
- 2) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
- 3) Do not remove the earthing pin on the power plug. This apparatus is equipped with a three pin earthing-type power plug. This plug will only fit an earthing-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician.
 - Do not defeat the purpose of the earthing plug.
- 4) To prevent electric shock, ensure the earthing pin on the AC cord power plug is securely connected.

CAUTION

This appliance is intended for use in environments which are relatively free of electromagnetic fields. Using this appliance near sources of strong electromagnetic fields or where electrical noise may overlap with the input signals could cause the picture and sound to wobble or cause interference such as noise to appear. To avoid the possibility of harm to this appliance, keep it away from sources of strong electromagnetic fields.

IMPORTANT: THE MOULDED PLUG -

FOR YOUR SAFETY, PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This display is supplied with a moulded three pin mains plug for your safety and convenience. A 10 amp fuse is fitted in this plug. Shall the fuse need to be replaced, please ensure that the replacement fuse has a rating of 10 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark s or the BSI mark s on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local Panasonic dealer.

Do not cut off the mains plug.

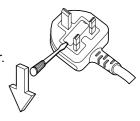
Do not use any other type of mains lead except the one supplied with this display.

The supplied mains lead and moulded plug are designed to be used with this display to avoid interference and for your safety.

If the socket outlet in your home is not suitable, get it changed by a qualified electrician. If the plug or mains lead becomes damaged, purchase a replacement from an authorized dealer.

WARNING: — THIS DISPLAY MUST BE EARTHED.

How to replace the fuse. Open the fuse compartment with a screwdriver and replace the fuse.



Safety Precautions

WARNING

■ Setup

This Plasma Display is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

(All of the following accessories are manufactured by Panasonic Corporation.)

Pedestal	TY-ST50VX100 (for TH-50VX100E),
r euestar	TY-ST65VX100 (for TH-65VX100E),
· Mall hanging breaket (vertical)	
Wall-hanging bracket (vertical)	,
	TY-WK65PV7 (for TH-65VX100E)
Wall-hanging bracket (angled)	TY-WK42PR7 (for TH-50VX100E),
	TY-WK65PR8 (for TH-65VX100E)
BNC Component Video Terminal Board	TY-42TM6A
RCA Component Video Terminal Board	TY-42TM6Z
HD-SDI Terminal Board	TY-FB9HD
HD-SDI Terminal Board with audio	TY-FB10HD
Dual Link HD-SDI Terminal Board	TY-FB11DHD
Dual HDMI Terminal Board	TY-FB10HMD
Ir Through Terminal Board	
DVI-D Terminal Board	

Always be sure to ask a qualified technician to carry out set-up.

Small parts can present choking hazard if accidentally swallowed. Keep small parts away from young children. Discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by young children, creating the potential risk of suffocation.

Do not place the Plasma Display on sloped or unstable surfaces.

• The Plasma Display may fall off or tip over.

Do not place any objects on top of the Plasma Display.

• If water is spills onto the Plasma Display or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma Display, please consult your local Panasonic dealer.

Transport only in upright position!

• Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.

Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, table cloths and curtains.

For sufficient ventilation;

If using the pedestal (optional accessory), leave a space of 10 cm or more at the top, left and right, and 7 cm or more at the rear, and also keep the space between the bottom of the display and the floor surface. If using some other setting-up method, follow the manual of it. (If there is no specific indication of installation dimension in the installation manual, leave a space of 10 cm or more at the top, bottom, left and right, and 7 cm or more at the rear.)

■ When using the Plasma Display

The Plasma Display is designed to operate on 220 - 240 V AC, 50/60 Hz.

Do not cover the ventilation holes.

• Doing so may cause the Plasma Display to overheat, which can cause fire or damage to the Plasma Display.

Do not stick any foreign objects into the Plasma Display.

• Do not insert any metal or flammable objects into the ventilations holes or drop them onto the Plasma Display, as doing so can cause fire or electric shock.

Do not remove the cover or modify it in any way.

• High voltages which can cause severe electric shocks are present inside the Plasma Display. For any inspection, adjustment and repair work, please contact your local Panasonic dealer.

Ensure that the mains plug is easily accessible.

An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earthing connection.

Do not use any power supply cord other than that provided with this unit.

Doing so may cause fire or electric shocks.

Securely insert the power supply plug as far as it will go.

• If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket is loose, they shall not be used.

Do not handle the power supply plug with wet hands.

· Doing so may cause electric shocks.

Do not do anything that may damage the power cable. When disconnecting the power cable, pull on the plug body, not the cable.

• Do not damage the cable, make any modifications to it, place heavy objects on top of it, heat it, place it near any hot objects, twist it, bend it excessively or pull it. To do so may cause fire and electric shock. If the power cable is damaged, have it repaired at your local Panasonic dealer.

If the Plasma Display is not going to be used for any prolonged length of time, unplug the power supply plug from the wall outlet.

■ If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odour starts to come out from the Plasma Display, immediately unplug the power supply plug from the wall outlet.

• If you continue to use the Plasma Display in this condition, fire or electric shock could result. After checking that the smoke has stopped, contact your local Panasonic dealer so that the necessary repairs can be made. Repairing the Plasma Display yourself is extremely dangerous, and shall never be done.

If water or foreign objects get inside the Plasma Display, if the Plasma Display is dropped, or if the cabinet becomes damages, disconnect the power supply plug immediately.

• A short circuit may occur, which could cause fire. Contact your local Panasonic dealer for any repairs that need to be made.



■ When using the Plasma Display

Do not bring your hands, face or objects close to the ventilation holes of the Plasma Display.

• Heated air comes out from the ventilation holes at the top of Plasma Display will be hot. Do not bring your hands or face, or objects which cannot withstand heat, close to this port, otherwise burns or deformation could result.

Be sure to disconnect all cables before moving the Plasma Display.

• If the Plasma Display is moved while some of the cables are still connected, the cables may become damaged, and fire or electric shock could result.

Disconnect the power supply plug from the wall socket as a safety precaution before carrying out any cleaning.

• Electric shocks can result if this is not done.

Clean the power cable regularly to prevent it becoming dusty.

• If dust built up on the power cord plug, the resultant humidity can damage the insulation, which could result in fire. Pull the power cord plug out from the wall outlet and wipe the mains lead with a dry cloth.

Do not burn or breakup batteries.

Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

This Plasma Display radiates infrared rays, therefore it may affect other infrared communication equipment. Install your infrared sensor in a place away from direct or reflected light from your Plasma Display.

Cleaning and maintenance

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been soaked in pure water or water in which neutral detergent has been diluted 100 times, and then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects, otherwise the surface may become damaged. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

- If the cabinet is particularly dirty, soak the cloth in water to which a small amount of neutral detergent has been added and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma Display. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the
 cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long
 periods in contact with articles made from rubber or PVC.

Accessories

Accessories Supply

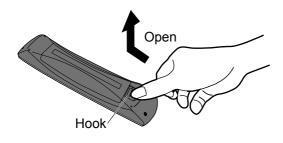
Check that you have the accessories and items shown Remote Control Transmitter N2QAYB000323 Power supply cord Power supply cord Fixing band × 1

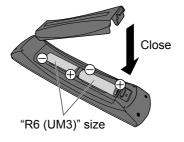
Remote Control Batteries

Requires two R6 batteries.

1. Pull and hold the hook, then open the battery cover.

2. Insert batteries - note correct polarity (+ and -).





Helpful Hint:

For frequent remote control users, replace old batteries with Alkaline batteries for longer life.

igtheta Precaution on battery use

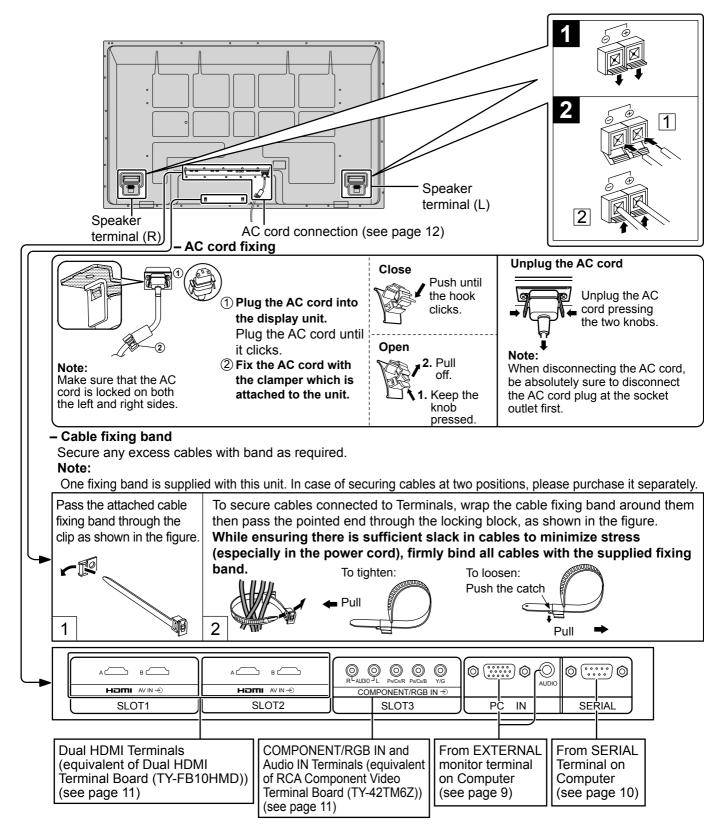
Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter. Disposal of batteries should be in an environment-friendly manner.

Observe the following precaution:

- 1. Batteries shall always be replaced as a pair. Always use new batteries when replacing the old set.
- 2. Do not combine a used battery with a new one.
- 3. Do not mix battery types (example: "Zinc Carbon" with "Alkaline").
- 4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
- 5. Battery replacement is necessary when remote control acts sporadically or stops operating the Plasma Display set.
- 6. Do not burn or breakup batteries.
 - Batteries must not be exposed to excessive heat such as sunshine, fire or the like.
- 7. Make a note of the remote control codes before changing batteries in case the codes are reset. (see page 43)

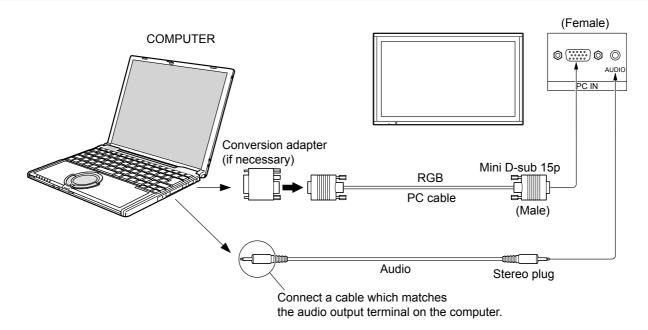
Connections

When connecting the speakers, be sure to use only the optional accessory speakers. Refer to the speaker's Installation Manual for details on speaker installation.



Note: At factory shipment, Terminal boards are installed in SLOT 1, SLOT 2 and SLOT 3.

PC Input Terminals connection



Notes:

- Due to space limitations, occasionally you may have trouble connecting Mini D-sub 15P cable with ferrite core to PC input Terminal.
- With regard to the typical PC input signals that are described in the applicable input signals list (see page 49), adjustment values such as for the standard picture positions and sizes have already been stored in this unit. You can add up to eight PC input signal types that are not included in the list.
- Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- The display resolution is a maximum of 1,440 × 1,080 dots when the aspect mode is set to "4:3", and 1,920 × 1,080 dots when the aspect mode is set to "16:9". If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
- The PC input terminals are DDC2B-compatible. If the computer being connected is not DDC2B-compatible, you will need to make setting changes to the computer at the time of connection.
- · Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with DOS/V compatible Mini D-sub 15P terminal.
- The computer shown in the illustration is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.
- Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
- Component Input is possible with the pin 1, 2, 3 of the Mini D-sub 15P Connector.
- To use sync input VBS signals, use the connector which incorporates a 75-ohm termination resistance and which is available on the market, for the connection of the HD connector where the VBS signals are to be input.
- Change the "Component/RGB-in select" setting in the "Setup" menu to "Component" (when Component signal connection) or "RGB" (when RGB signal connection). (see page 38)

Signal Names for Mini D-sub 15P Connector

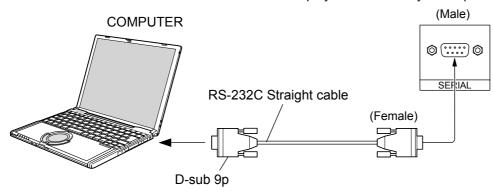
(54321)
0 9 8 7 6
(15) (14) (13) (12) (11)
(15) (14) (13) (12) (11)

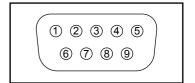
Pin Layout for PC Input Terminal

Pin No.	Signal Name	Pin No.	n No. Signal Name Pin N		Signal Name
1	R (Pr/Cr)	6	GND (Ground)	11)	NC (not connected)
2	G (Y)	7	GND (Ground)	12	SDA
3	В (Рв/Св)	8	GND (Ground)	13	HD/SYNC
4	NC (not connected)	9	+5 V DC	14)	VD
5	GND (Ground)	10	GND (Ground)	15)	SCL

SERIAL Terminals connection

The SERIAL terminal is used when the Plasma Display is controlled by a computer.





Pin layout for SERIAL Terminal

Notes:

- Use the RS-232C straight cable to connect the computer to the Plasma Display.
- The computer shown is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.

The SERIAL terminal conforms to the RS-232C interface specification, so that the Plasma Display can be controlled by a computer which is connected to this terminal.

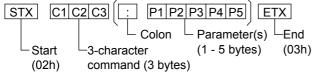
The computer will require software which allows the sending and receiving of control data which satisfies the conditions given below. Use a computer application such as programming language software. Refer to the documentation for the computer application for details.

Communication parameters

Signal level	RS-232C compliant
Synchronization method	Asynchronous
Baud rate	9600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
Flow control	-

Basic format for control data

The transmission of control data from the computer starts with a STX signal, followed by the command, the parameters, and lastly an ETX signal in that order. If there are no parameters, then the parameter signal does not need to be sent.



Notes:

- If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
- If an incorrect command is sent by mistake, this unit will send an "ER401" command back to the computer.
- SL1A, SL1B, SL2A and SL2B of Command IMS are available only when a dual input terminal board is attached.

Signal names for D-sub 9P connector

Pin No.	Details
2	RXD
3	TXD
(5)	GND
4.6	Non use
⑦ ⑧	(Shorted in this set)
1.9	NC

These signal names are those of computer specifications.

Command

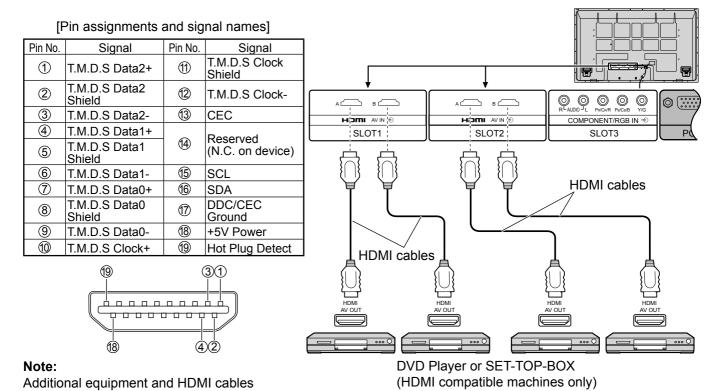
Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	**	Volume 00 - 63
IMS	None	Input select (toggle)
	SL1	Slot1 input
	SL2	Slot2 input
	SL3	Slot3 input
	PC1	PC input
	SL1A	Slot1 input (INPUT1A)
	SL1B	Slot1 input (INPUT1B)
	SL2A	Slot2 input (INPUT2A)
	SL2B	Slot2 input (INPUT2B)
DAM	None	Screen mode select (toggle)
	ZOOM	Zoom1
	FULL	16:9
	JUST	Just
	NORM	4:3
	ZOM2	Zoom2
	ZOM3	Zoom3
	SJST	Just
	SNOM	4:3
	SFUL	4:3 Full
	14:9	14:9

With the power off, this display responds to PON command only.

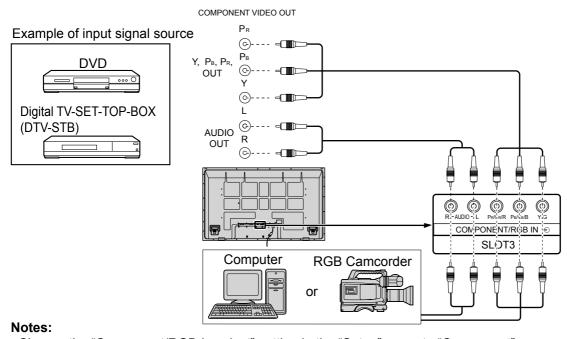
HDMI connection

shown are not supplied with this set.

This unit has terminal boards equivalent to Dual HDMI Terminal Board (TY-FB10HMD) and RCA Component Video Terminal Board (TY-42TM6Z) as standard equipment.



COMPONENT / RGB connection



- Change the "Component/RGB-in select" setting in the "Setup" menu to "Component" (when Component signal connection) or "RGB" (when RGB signal connection). (see page 38)
- · Additional equipment, cables and adapter plugs shown are not supplied with this set.
- Sync on G signal is needed. (see page 40)

Power On / Off

Connecting the AC cord plug to the Plasma Display.

Fix the AC cord plug securely to the Plasma Display with the clamper. (see page 8)

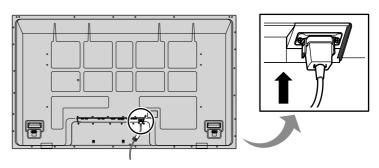
Connecting the plug to the Wall Outlet.

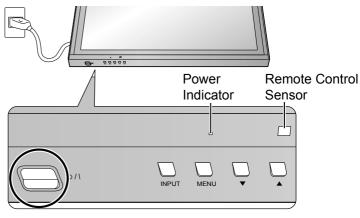
Notes:

- Main plug types vary between countries. The power plug shown at right may, therefore, not be the type fitted to your set.
- When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.

Press the Power switch on the Plasma Display to turn the set on: Power-On.

Power Indicator: Green

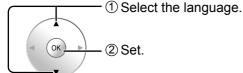




When first switching on the unit

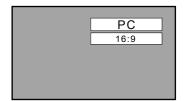
Following screen will be displayed when the unit is turned on for the first time.

Select the language with the remote control. Unit buttons are invalid.





From the second time on, the below screen is displayed for a while (setting condition is an example).



Notes:

- Once the language is set, the screen won't be displayed when switching on the unit next time.
- From the second time on, language selection can be done from the Setup menu. (see page 13)



Press the button on the remote control to turn the Plasma Display off.

Power Indicator: Red (standby)

Press the button on the remote control to turn the Plasma Display on.

Power Indicator: Green

Turn the power to the Plasma Display off by pressing the 0/1 switch on the unit, when the Plasma Display is on or in standby mode.

Note:

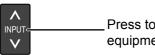
During operation of the power management function, the power indicator turns orange in the power off state.



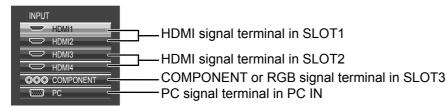
Initial selections

Selecting the input signal

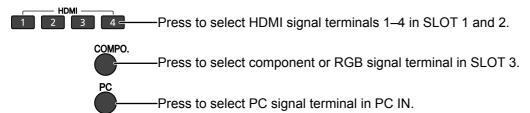
Select the input signals to be connected by installing the optional Terminal Boards.



Press to select the input signal to be played back from the equipment which has been connected to the Plasma Display.



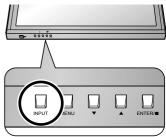
Using dedicated buttons for input selection



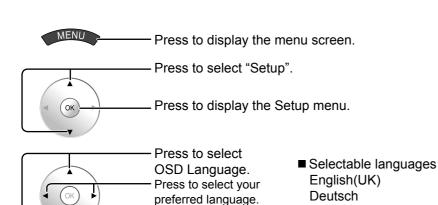


Notes:

- Selecting is also possible by pressing the INPUT button on the unit.
- Input terminal will not be selected if the terminal board is not installed into the SLOT.
- Select to match the signals from the source connected to the component/RGB input terminals. (see page 38)
- Image retention (image lag) may occur on the plasma display panel when a still picture is kept on the panel for an extended period. The function that darkens the screen slightly is activated to prevent image retention (see page 45), but this function is not the perfect solution to image retention.



Selecting the On-Screen Menu Language







Setup menu



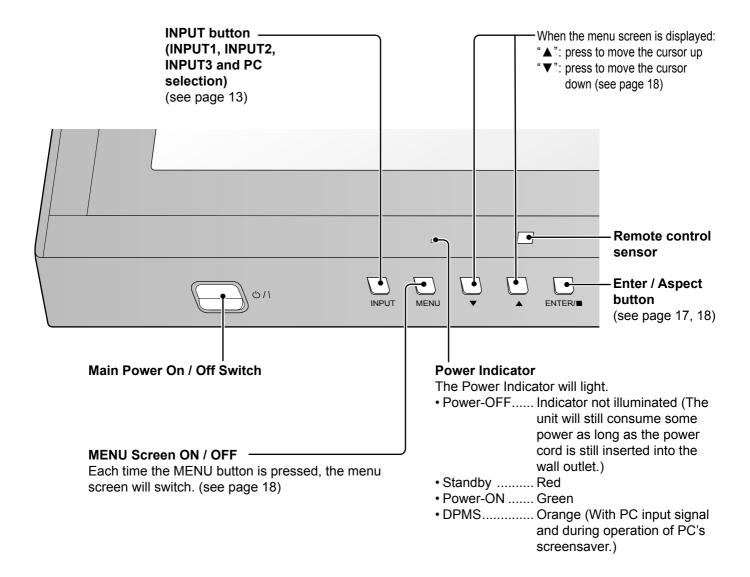
日本語 (Japanese)

Français

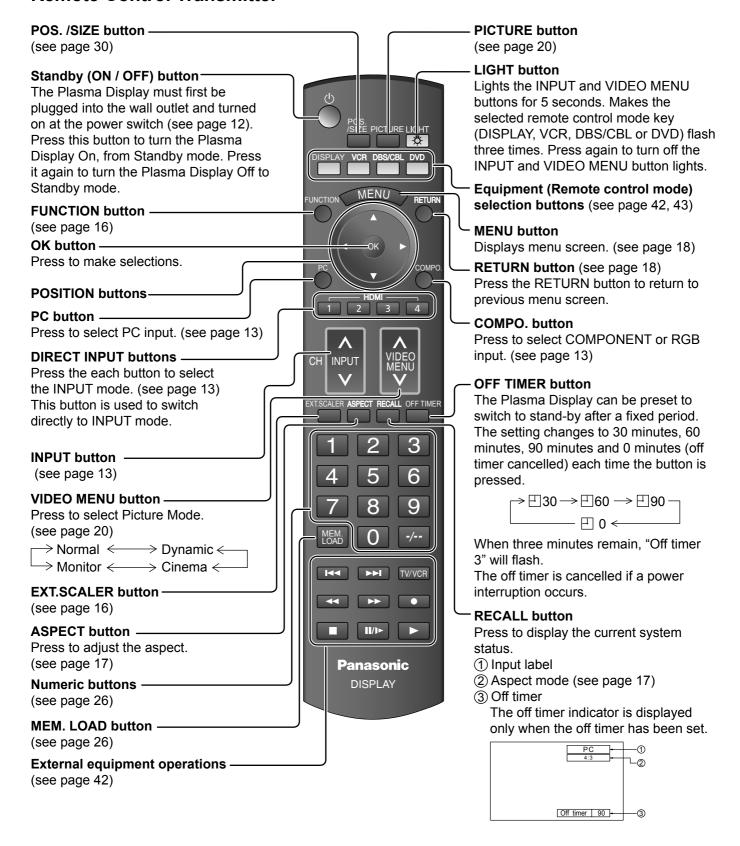
Italiano Español ENGLISH(US)

Basic Controls

Main Unit



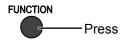
Remote Control Transmitter

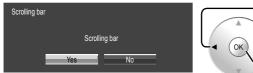


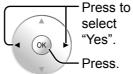
Scrolling bar and Test patterns functions

Pressing activates one of the following two functions. The function button setting can be configured by accessing "Function button assign" in the Options menu. (see page 41)

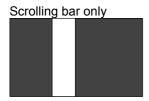
Scrolling bar





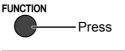


Activates the Scrolling bar only screensaver. After 15 minutes, the display enters standby mode.



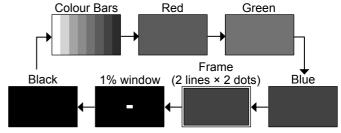
To exit this mode, press any button.

Test patterns





Each time you press a different test pattern is displayed (seven in all).



To exit this mode, press any button other than ox.

Note:

Auto power off is deactivated during Scrolling bar or Test patterns operation. (see page 36)

EXT. SCALER function

Each time you press EXTSCALER, an external scaler is activated or deactivated.



Off: Use the built-in scaler. **On:** Use an external scaler.

The setting is valid with the following signals.

1125 (1080) / 24p•25p•30p•50p•60p

With input signals other than these, specifying "On" will display the following message.



Note

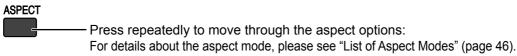
You can also turn the built-in scaler On and Off by accessing "External scaler mode" in the Setup menu. (see page 35)

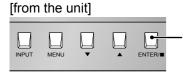
ASPECT Controls

The Plasma Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.

Note

Be aware that if you put the display in a public place for commercial purposes or a public showing and then use the aspect mode select function to shrink or expand the picture, you may be violating the copyright under copyright law. It is prohibited to show or alter the copyrighted materials of other people for commercial purposes without the prior permission of the copyright holder.





The aspect mode changes each time the ENTER button is pressed.



For PC signal input:

$$\rightarrow$$
 4:3 \rightarrow Zoom \rightarrow 16:9 $-$

$$\longrightarrow \text{4:3} \longrightarrow \text{Zoom1} \longrightarrow \text{Zoom2} \longrightarrow \text{Zoom3} \longrightarrow \text{16:9} \longrightarrow \text{14:9} \longrightarrow \text{Just} \longrightarrow \text{200}$$

For HD signal input [1125 (1080) / 60i • 50i • 60p • 50p • 24p • 25p • 30p • 24sF, 1250 (1080) / 50i, 750 (720) / 60p • 50p]:

$$\rightarrow$$
 4:3 \rightarrow 4:3 Full \rightarrow Zoom1 \rightarrow Zoom2 \rightarrow Just \leftarrow 14:9 \leftarrow 16:9 \leftarrow Zoom3 \leftarrow

Notes:

- The aspect mode is memorized separately for each input terminal.
- Do not allow the picture to be displayed in 4:3 mode for an extended period, as this can cause a permanent image retention to remain on the Plasma Display Panel.

All Aspect mode

Set "All Aspect" to "On" in Options menu to enable the extended aspect mode (page 41). When All Aspect mode, the aspect mode of pictures is switched as follows. For details about the aspect mode, please see "List of Aspect Modes" (page 46)

For PC signal input:

$$\rightarrow$$
 4:3 \rightarrow Zoom \rightarrow 16:9 \neg

ightarrow 4:3 ightarrow Zoom2 ightarrow Zoom3 ightarrow 16:9 ightarrow 14:9 ightarrow Just -

For HD signal input [1125 (1080) / 60i • 50i • 60p • 50p • 24p • 25p • 30p • 24sF, 1250 (1080) / 50i, 750 (720) / 60p • 50p]: \Rightarrow 4:3 Full \Rightarrow Zoom1 \Rightarrow Zoom2 \Rightarrow Zoom3 \Rightarrow 16:9 \Rightarrow 14:9 \Rightarrow Just1 \Rightarrow Just2 \Rightarrow 4:3 (1) \Rightarrow 4:3 (2) \Rightarrow

On-Screen Menu Displays

Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching Display best suited for you.



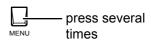
1 Display the menu screen.



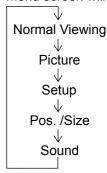




Unit

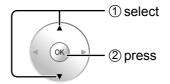


Each time the MENU button is pressed, the menu screen will switch.



? Select the menu.





Press to return to the previous menu.

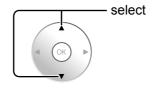
RETURN

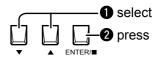
(Example: Sound menu)

Menus can also be accessed directly by pressing dedicated buttons, such as and (see page 20, 30)

3 Select the item.

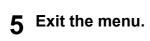


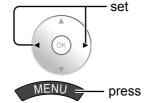


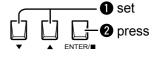


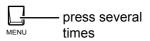
(Example: Sound menu)

⊿ Set.



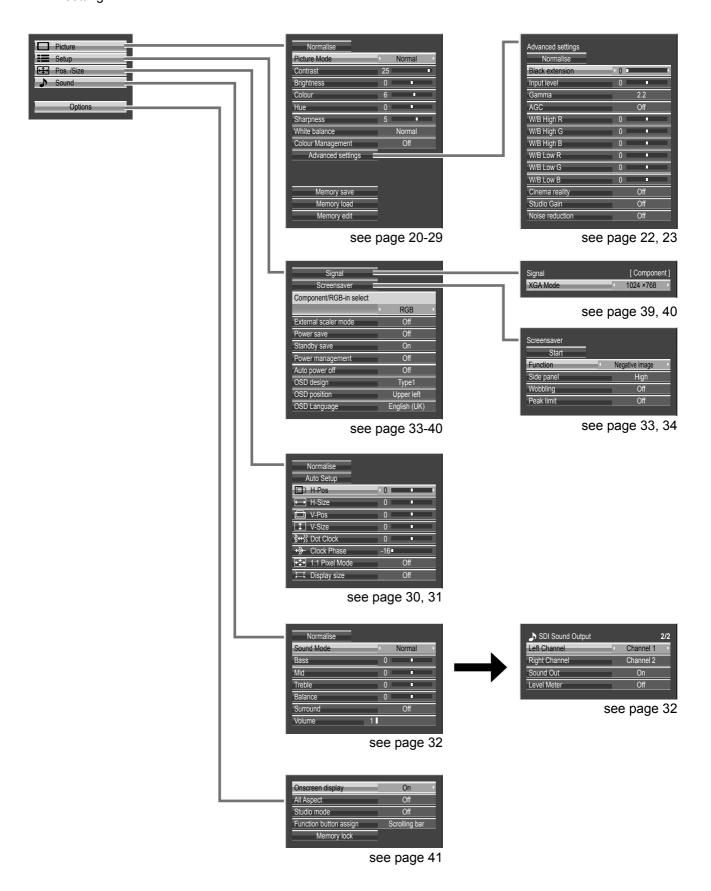






Overview

Note: Menu that cannot be adjusted is grayout. Adjustable menu changes depending on signal, input and menu setting.



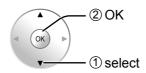
Picture Adjustments

Display the menu screen.

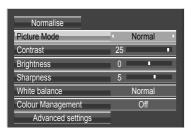


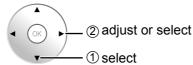
Select "Picture".

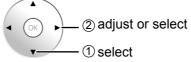




Select the item and set.



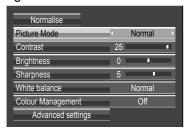




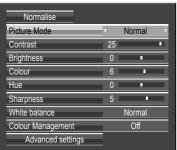
Exit the menu.

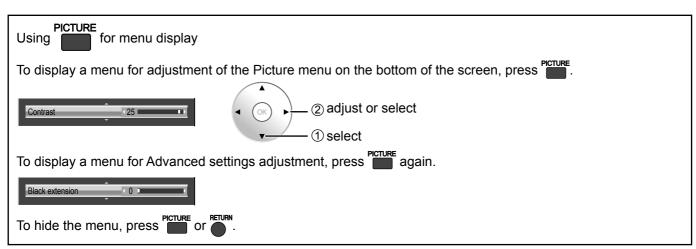


During "RGB" and "PC" input signal.



During "Digital" and "Component" input signal.





Picture Mode

You can switch to the optimal picture mode for the video source and viewing environment.

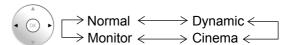
Normal:

For viewing in standard (evening lighting) environments. This menu selects the normal levels of Brightness and Contrast.

Dvnamic:

For viewing in brighter environments.

This menu selects higher than normal levels of Brightness and Contrast.



Cinema:

Ideal for movies.

Monitor:

For use when creating broadcast or movie content. With this picture, even if the overall average picture level (APL) changes, the brightness of areas with the same signal level does not change.

Notes:

• When "Monitor" is selected in Picture Mode, the following menu items cannot be set.

Picture menu: Contrast

Screensaver menu: Peak limit (see page 34)

Setup menu: Power save (see page 36)

• If you would like to change the picture and colour of the selected Picture menu to something else, adjust using the items in the Picture menu. (see next page)

Picture Adjustments

Contrast
 Selects the proper brightness and density for

the room.

Less (OK) More

• **Brightness** Adjusts for easier viewing of dark pictures such

as night scenes and black hair.

Darker • S Brighter

• **Colour** Adjusts colour saturation.

Less More

• **Hue** Adjusts for nice skin colour.

Reddish Greenish

• **Sharpness** Adjusts picture sharpness.

Less • More

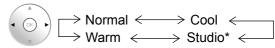
• White balance Switches to various screen colour tones.

Normal: Intermediate colour temperature. **Cool:** Colours with a bluish tinge.

Studio: Optimal colour temperature for studio viewing

(3200 K).

Warm: Colours with a reddish tinge.



* "Studio" can be modified when

"Studio mode" in the Options menu is

On

"On". (see page 41)

Colour Management

On: Enables colour adjustment automatically.

Notes:

• "Colour" and "Hue" settings cannot be adjusted for "RGB/PC" input signal.

- You can change the level of each function (Contrast, Brightness, Colour, Hue, Sharpness) for each Picture Mode.
- The setting details for normal, dynamic and cinema respectively are memorized separately for each input terminal
- In Contrast, there is not a noticeable change even when contrast is increased with a bright picture or reduced with a dark picture.

Helpful Hint (Normalise Normalization)

While the "Picture" menu is displayed, if the OK button is pressed during "Normalise", then all adjustment values are returned to the factory settings.

Advanced settings

Enables fine picture adjustment at a professional level.

Notes:

- The adjustment values are memorized separately for each input terminal.
- The adjustment range values should be used as an adjustment reference.



Black extension

Adjusts the dark shades of the image in gradation.

Less



More

• Input level

Adjustment of parts which are extremely bright and hard to

see.

Less



More

 Gamma Available setting values vary depending on "Picture Mode" settings and the type of input signal, as follows.

Picture Mode	S Curve	1.0	2.0	2.2	2.5	2.6
Normal	_	O*3	0	0	0	O*1
Dynamic	0	O*3	0	0	_	O*1
Cinema	_	O*3	0	0	O*2	0
Monitor	_	O*3	0	0	_	0

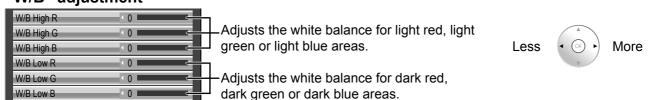
*1 When 2k1k signals are received with the Dual Link HD-SDI Terminal Board (TY-FB11DHD), Gamma "2.6" can also be selected.

AGC Increases the brightness of dark signal automatically.

Down



• "W/B" adjustment



Carry out "W/B" adjustment as follows.

- 1. Adjust the white balance of the bright sections using the "W/B High R", "W/B High G" and "W/B High B" settings.
- 2. Adjust the white balance of the dark sections using the "W/B Low R", "W/B Low G" and "W/B Low B" settings.
- 3. Repeat steps 1 and 2 to adjust.

Steps 1 and 2 affect each other's settings, so repeat each step in turn to make the adjustment.

^{*2} When 60 Hz signals are received, Gamma "2.5" can also be selected.

^{*3} When 2k1k signals are received with the Dual Link HD-SDI Terminal Board (TY-FB11DHD), Gamma "1.0" cannot be selected.

• Cinema reality When "On", the display attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded at 24 frames per second. If the picture is not stable, turn the setting to "Off".



Note:

When "On", this setting only affects the following signal input:

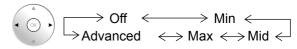
- 525i (480i), 625i (575i), 1125 (1080) / 60i signal input during "Component" input signal.
- **Studio Gain** Sharpens the contrast for a better view when a part of the image is too light to see.

Off On

Off: Disables "Studio Gain".
On: Enables "Studio Gain".

Notes:

- "Studio Gain" can be modified when "Studio mode" in the Options menu is "On". When "Studio mode" is "Off", this setting is "Off" and cannot be changed. (see page 41)
- This setting is valid only when the input signals are as follows: Component Video, RGB (analog), SDI, HDMI
- **Noise reduction** Sets the following three NR (Noise Reduction) functions together. P-NR, Mosquito NR, Block NR

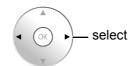


[Advanced NR]

Sets the three NR functions separately.

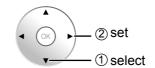
1 Select "Advanced".

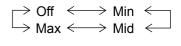




Select the item and set.







P-NR: Automatically reduces unwanted picture noise.

Mosquito NR: Reduces mosquito noise around subtitles on MPEG videos.

Block NR: Reduces block noise when playing MPEG videos.

Notes:

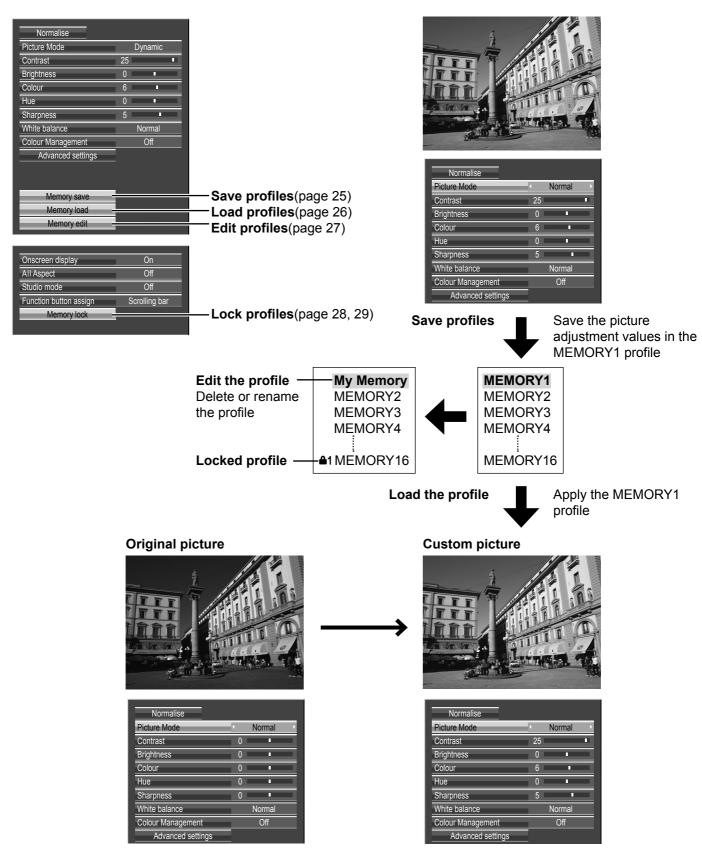
- "Noise reduction" cannot be adjusted while a PC signal is being applied.
- "Block NR" cannot be adjusted while a HD signal is being applied.

Helpful Hint (Normalise Normalization)

On the remote control unit, while the "Advanced settings" menu is displayed, if the OK button is pressed during "Normalise", then all adjustment values are returned to the factory settings.

Picture Profiles

Up to 16 combinations of picture adjustment values (in the Picture menu and Advanced settings) can be stored in the display memory as profiles and applied as needed, for a convenient way to enjoy your preferred picture settings.



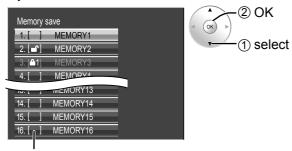
Saving profiles

Follow these steps to save picture adjustment values as profiles.

- 1 Specify the picture quality in the Picture menu and Advanced settings. (see page 20-23)
- In the Picture menu, select "Memory save".



3 Select a profile name for saving the picture adjustment values.



Profiles are labeled with these icons to indicate their locked status. (see page 26)

- [], []:Settings can be saved in this profile.
- [♠1], [♠2]:Settings cannot be saved in this profile.
- Select "Ok".



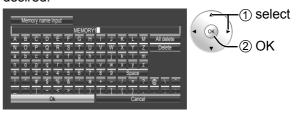
5 Enter a name for the profile.

[Entering profile names]

Profile names can be up to 16 characters.

To enter text, select characters in the on-screen keyboard.

Edit the default profile name in the text box as desired.



Example: Specifying "MY PICTURE"

① Select "All delete".

MEMORY1

MEMORY1

All text is deleted.

To delete individual characters, select "Delete".

② Select "M".

Repeat this process to enter the next character.

③ Select "Y".

MY

④ Select "Space".

When you finished entering the profile name, select "Ok"

To cancel saving the profile, select "Cancel".



Loading profiles

Load profiles and apply the picture adjustment values to the display as follows.

Note:

Loaded profiles are stored in memory according to the selected input terminal (SLOT1, 2, 3 or PC IN).

<Loading profiles from the Picture menu>

■ In the Picture menu, select "Memory load".



9 Select the profile to load.



Profiles are labeled with these icons to indicate their locked status. (see below)

<Loading profiles from on the remote control>

- Press to list the profiles.
- **?** Select the profile to load.



Profiles are labeled with these icons to indicate their locked status. (see below)

<Loading profiles directly from the remote control>

To load profiles 1-9

- Press a button in the range 1 9.
- 2 Select "Ok".

 Memory load

 Load from MEMORY2 41

To load profiles 10–16 Example: To load profile 16

Press -/-- 1 6.

The profile number is displayed in the upper-right corner of the screen.

2 OK



9 Select "Ok".



Loading locked profiles...

In the Picture menu, profiles are labeled with these icons to indicate their locked status.

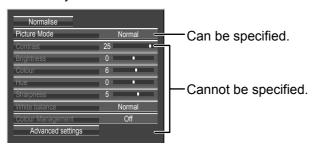


Operations with locked profiles are restricted. (see page 28)

Picture adjustment values in the Picture menu cannot be changed, except for the "Picture Mode". Once you edit the "Picture Mode" setting, you can edit "Contrast", "Brightness", and other picture adjustment values.

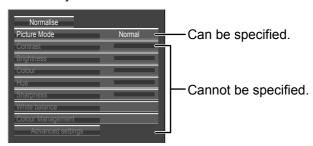
≜1 Lock1

Picture adjustment values are shown.



^{≜2} Lock2

Picture adjustment values are hidden.



Editing profiles

Delete or rename profiles as follows.

<Deleting profiles>

Note:

Locked profiles and profiles currently in use cannot be deleted.

■ In the Picture menu, select "Memory edit".

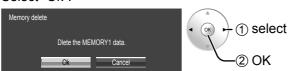


Select "Memory delete".



Select the profile to delete. To delete all profiles, select "All delete".





<Renaming profiles>

Note:

Locked profiles cannot be renamed.

■ In the Picture menu, select "Memory edit".



Select "Memory name change".



Select the profile to rename.



Enter a name for the profile.
Entering profile names ⇒ page 25



When you finished entering the profile name, select "Ok"

To cancel renaming the profile, select "Cancel".



Locking profiles

You can lock saved profiles to restrict operations when the profiles are loaded. You can also set passwords.

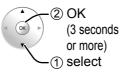
<Locking and unlocking profiles>

Display the menu screen.



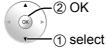
2 Select "Options" and hold of for 3 seconds or more.





2 Select "Memory lock".





4 Enter a 4-digit password. The default password is "0123".



Select "OK".



6 Select the profile and specify the desired lock setting.



7 Exit the menu.



Once a profile is locked, the following operations are restricted when the profile is loaded.

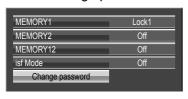
Setting	Editing the Profile (Memory edit)	Editing Picture Adjustment Values via the Menu (Picture menu, Advanced settings)	Saving Picture Adjustment Values (Memory save)
Off (unlocked)	Allowed	Allowed	Allowed
Lock1	Prohibited	Prohibited (picture adjustment values are shown)	Allowed
Lock2	Prohibited	Prohibited (picture adjustment values are hidden)	Prohibited

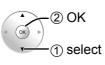
<Changing passwords>

1 Follow steps 1–5 in the previous procedure,

<Locking and unlocking profiles>.

Select "Change password".



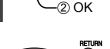


3 Enter a new 4-digit password.



▲ Select "OK".





① select

5 Exit the menu.

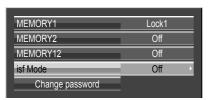
Note:

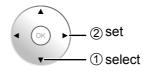
Make a note of the new password to remember it.

<isf Mode Setting>

Switches to "Picture Mode" mode display.

- 1 Follow steps 1–5 in the previous procedure, Locking and unlocking profiles>.
- 2 Select "isf Mode".



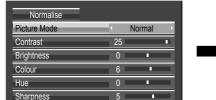


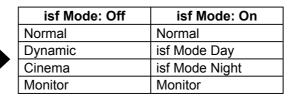
- 3 Specify "On" or "Off".
- ▲ Exit the menu.



Specifying "On" for isf Mode changes the "Picture Mode" mode display as follows.

"Picture Mode" mode display













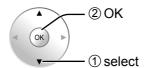
Adjusting Pos. /Size

Display the menu screen.



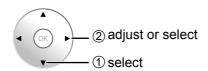
Select "Pos. /Size".





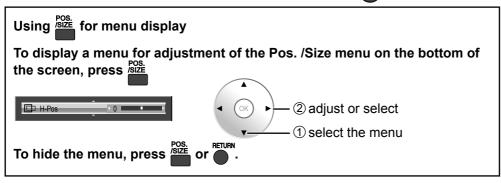
Select the item and set.





▲ Exit the menu.





During "Digital", "SDI" and "HDMI" input signal.



During "Component", "RGB" and "PC" input signal.



Notes:

- · Unadjustable items are grayed out.
- Adjustable items differ depending on the input signal and the display mode.
- Adjustment details are memorized separately for different input signal formats (Adjustments for component signals are memorized for 525 (480) / 60i 60p, 625 (575) / 50i 50p, 1125 (1080) / 60i 50i 60p 50p 24p 25p 30p 24sF, 1250 (1080) / 50i, 750 (720) / 60p 50p each, and RGB/PC/Digital signals are memorized for each frequency.)
- If a "Cue" or "Rew" signal from a VCR or DVD player is received, the picture position will shift up or down. This picture position movement cannot be controlled by the Picture Pos./Size function.

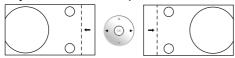
Auto Setup

Automatically adjust H-Pos / V-Pos / Clock Phase / Dot Clock and set H-Size / V-Size the standard value when RGB signal is input.

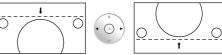
Notes:

- If the dot clock frequency is 162 MHz or higher, Dot Clock cannot be made.
- If the image is that the edge is hardly figured out or shadowy, that cannot be adjusted automatically. In such case, press Auto Setup again after changing the image to the clearer one.
- When DVI-D is input, Clock Phase cannot be adjusted automatically.
- Select Normalise in Pos. /Size and press the OK button when appropriate adjustment cannot be made.

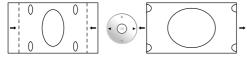
• H-Pos Adjust the horizontal position.



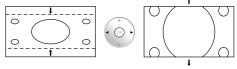
• V-Pos Adjust the vertical position.



• H-Size Adjust the horizontal size.



V-Size Adjust the vertical size.



Dot Clock

(During "Component", "RGB" and "PC" input signal)

Periodic striped pattern interference (noise) may occur when a striped pattern is displayed. If this happens, adjust so that any such noise is minimized.

Clock Phase

(During "Component", "RGB" and "PC" input signal)

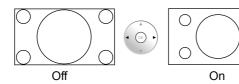
Eliminate the flickering and distortion.

• 1:1 Pixel Mode

Adjusts the display size when 1125i, 1125p or 1250i signal is input.

Notes:

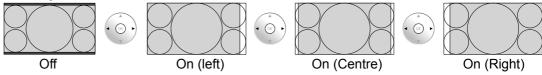
- Select On when you would like to replay 1920 × 1080 input signal.
- Applicable input signal;
 1125 (1080) / 50i 60i 24sF 24p 25p 30p 50p 60p, 1250 (1080) / 50i
- Select Off when flickering is shown around the image.
- H-Size, V-Size and Dot Clock cannot be adjusted when On is selected.



• 1:1 Pixel Mode (2k1k)

When the input signal is a 2k1k signal ($2048 \times 1080 / 24p$, $2048 \times 1080 / 24sF$), the display size is adjusted as follows.

(For 2k1k signals)



Note:

2k1k signals can only be received when the Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed.

Display size

Adjusts the image display size on screen.

Off: Sets the normal image display size on screen.

On: Sets the image display size approximately 95 % of the normal image display.



Notes:

- "Display size" can be modified when "Studio mode" in the Options menu is "On". When "Studio mode" is "Off", this setting is "Off" and cannot be changed. (see page 41)
- This setting is valid only when the input signals are as follows; 525i, 525p, 625i, 625p, 750/60p, 750/50p, 1125/60i, 1125/50i, 1125/24sF, 1125/25p, 1125/24p, 1125/30p, 1125/60p, 1125/50p, 1250/50i (Component Video, RGB, DVI, SDI, HDMI)
- When "Display size" is set to "On", "H-Pos" and "V-Pos" in "Pos. /Size" can be adjusted.
- Refer to each board's operating instruction for DVI, SDI, HDMI's corresponding signals.

Helpful Hint (Normalise Normalization)

While the Pos. /Size display is active, if the OK button is pressed during "Normalise", then all adjustment values are returned to the factory settings.

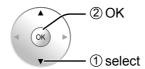
Sound Adjustment

1 Display the menu screen.



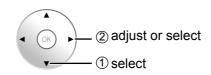
Select "Sound"





Select the item and set.





Normalise

Sound Mode

Normal

Bass

Mid

Treble

Balance

Surround

Off

Volume

1

▲ Exit the menu.



Item	Details
Sound Mode	Normal: Emits the original sound. Dynamic: Accentuates sharp sound. Clear: Attenuates human voice.
Bass	Adjusts low pitch sounds.
Mid	Adjusts normal sounds.
Treble	Adjusts high pitch sounds.
Balance	Adjusts left and right volumes.
Surround	Select On or Off. The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.
Volume	Adjusts the sound volume level.

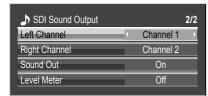
Note: Bass, Mid, Treble and Surround settings are memorized separately for each Sound Mode.

Helpful Hint (Normalise Normalisation)

While the "Sound" menu is displayed, if the OK button is pressed during "Normalise", then all adjustment values are returned to the factory settings.

SDI Sound Output

This menu is displayed when HD-SDI Terminal Board with audio (TY-FB10HD) or Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed to the unit.



Note:

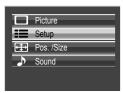
This menu is available only when selecting a slot that HD-SDI Terminal Board with audio (TY-FB10HD) or Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed.

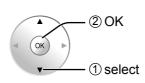
Item	Details
Left Channel	Channel 1 to Channel 16 Selects left audio channel.
Right Channel	Channel 1 to Channel 16 Selects right audio channel.
Sound Out	On ←→ Off On: Enables audio output. Off: Disables audio output.
Level Meter	Off ←→ 1-8ch ←→ 9-16ch Sets audio channels to show in the audio level meter. 8 channels are displayed in the audio level meter; 4 channels each on both right and left sides of the display. Off: Hides the audio level meter. 1-8ch: Displays the audio level meter (1-8ch) 9-16ch: Displays the audio level meter (9-16ch)

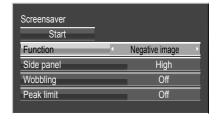
Screensaver (For preventing image retention)

Do not display a still picture, especially in 4:3 mode, for any length of time. If the display must remain on, a Screensaver should be used.

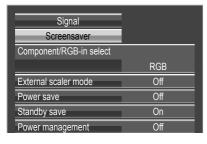
- 1 Display the menu screen.
- 9 Select "Setup".

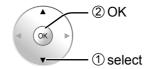






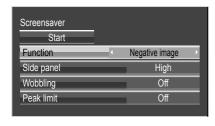
3 Select "Screensaver".

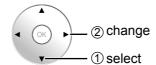




▲ Function selection

Select "Function" and select the desired function.





→ Negative image ←→ Scrolling bar only ← → White screen ←→ Overlay scrolling bar ←

Negative image : Negative image will be displayed on the screen.

Scrolling bar only : A white bar will scroll from left to right. The

image won't be displayed.

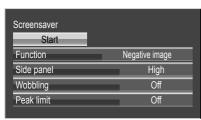
Overlay scrolling bar: The brightness of the image will be decreased

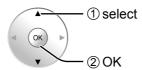
and a white bar will scroll on it.

White screen : The whole screen will be white.

5 Start setting

Select "Start".





The menu screen will disappear and the Screensaver will be activated. To stop the Screensaver under On, press or any buttons on the main unit.

Note: When the display is turned off, the Screensaver will be deactivated.

Reduces screen image retention

These functions prevent the occurrence of an "image retention" on the display when turned ON.

Wobbling: Automatically shifts the display image (therefore unnoticeable to the eye) to prevent image retention

of sharper contour of image.

On1: Shifts the image every 30 seconds.

On2: Shifts the image at a dot level pitch depending on screen-detection.

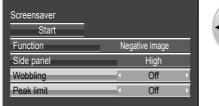
Peak limit: Suppresses image contrast (peak brightness).

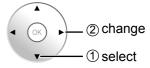
Note: When a still picture is viewed for an extended time, the screen may become slightly darker. (see

page 45)

Select "Wobbling" or "Peak limit".

Select "On1", "On2" or "Off" (Wobbling).
Select "On" or "Off" (Peak limit).



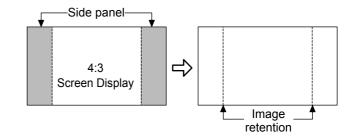


Side Panel Adjustment

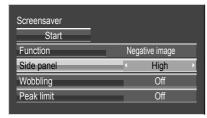
Do not display a picture in 4:3 mode for an extended period, as this can cause an image retention to remain on the side panels either side of the display field.

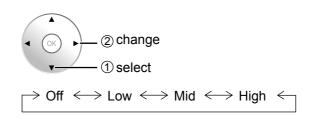
To reduce the risk of such an image retention, illuminate the side panels.

This function may be applicable to the non-picture area.



- Select "Side panel".
- 2 Adjust the menu.





3 Exit from Screensaver.



Notes:

- To reduce the occurrence of image retention, set the "Side panel" to "High".
- The side panels may flash (alternate black / white) depending on the picture being shown on the screen. Using Cinema mode will reduce such flashing.

Specifying the scaler

This menu can be used to specify whether the built-in scaler or an external scaler is used for scaler functions such as resizing and picture quality adjustment.

The setting is valid with the following input signals.

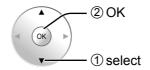
1125 (1080) / 24p•25p•30p•50p•60p

1 Display the menu screen.

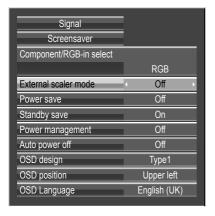


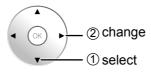
Select "Setup".





Select "External scaler mode" and set.





 $Off \longleftrightarrow On$

Off: Use the built-in scaler. **On:** Use an external scaler.

Note:

Selecting "On" in this setting deactivates the following settings and disables these operations.

Pos. /Size menu: H-Size, V-Size, 1:1 Pixel Mode, Display size

(see page 30, 31)

Picture menu: Brightness, Colour, Hue, Sharpness, Memory save,

Memory load (see page 21, 25, 26)

Signal Screensaver

Component/RGB-in select

External scaler mode

Power management
Auto power off

Power save Standby save

OSD design

OSD position
OSD Language

RGB

Off

On

Off

Off

Type1

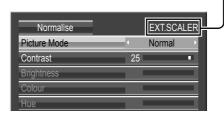
English (UK)

Advanced settings: Cinema reality, Noise reduction (see page 23)

Signal menu: XGA Mode (see page 39)
Options menu: All Aspect (see page 41)

ASPECT Controls (see page 17)

"EXT. SCALER" is displayed in the menu screen to indicate that an external scaler is in use.



▲ Exit the menu.



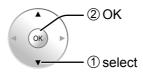
Reduces power consumption

1 Display the menu screen.

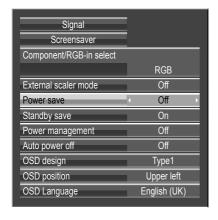


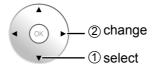
9 Select "Setup".

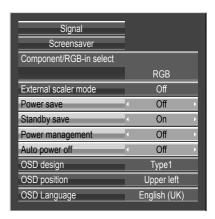




3 Select the item and set.







4 Exit the menu.



- Power save
- Standby save
- Power management

When this function is turned On, luminous level of the Plasma Display is suppressed, so power consumption is reduced.

When this function is turned On, power consumption of the microcomputer is reduced during power supply standby (see page 12, 14, 15), so standby power of the set is reduced.

When this function is set to On, it operates under the following conditions to turn the power on or off automatically.

When no pictures (HD/VD sync signals) are detected for 30 or so seconds during PC IN signal input:

→ Power is turned off (standby); the power indicator lights up orange.

When pictures (HD/VD sync signals) are subsequently detected:

→ Power is turned on; the power indicator lights up green.

Notes:

- This function operates only during PC IN signal input.
- This function is effective when "Sync" is set to "Auto" and "Component / RGB-in select" is set to "RGB".

Auto power off

Equipment power supply is turned Off when there is no signal.

When this is set to On, the power supply of the unit goes Off 10 minutes after the input signals stop.

Note:

This function is effective for input signals except PC IN terminal.

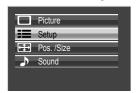
Customizing the On-Screen Menu Display

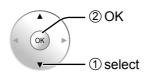
Specify the background colour and display position of on-screen menus as follows.

Display the menu screen.

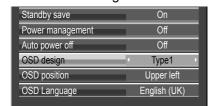


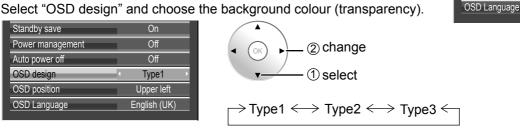
Select "Setup".





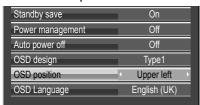
Specify the background colour.

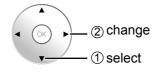




Specify the display position.

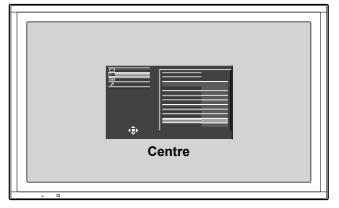
Select "OSD position" and choose the display position.





Each time you press ◀ or ▶, the on-screen menu display position changes. Display example





Screensaver

RGB

Off

Off

On

Off

Off

Upper left

English (UK)

Component/RGB-in select

External scaler mode

Power management Auto power off

Power save

Standby save

OSD design

Exit the menu.



Setup for Input Signals

Component / RGB-in select

Select to match the signals from the source connected to the Component / RGB input terminals.

Y, PB, PR signals → "Component"

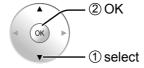
RGB signals → "RGB"

Display the menu screen.



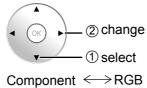
9 Select "Setup".





3 Select "Component / RGB-in select" and set.





Exit the menu.



Notes:

- Selection may not be possible, depending on which optional board is installed.
- Make setting of the selected input terminal (SLOT1, SLOT2, SLOT3 or PC IN).

YUV / RGB-in select

Select to match the signals from the source connected to the DVI input terminals.

YUV signals → "YUV"

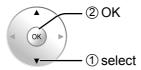
RGB signals → "RGB"

Display the menu screen.



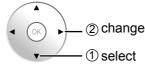
2 Select "Setup".





3 Select "YUV / RGB-in select" and set.





 $\mathsf{YUV} \longleftrightarrow \mathsf{RGB}$

4 Exit the menu.



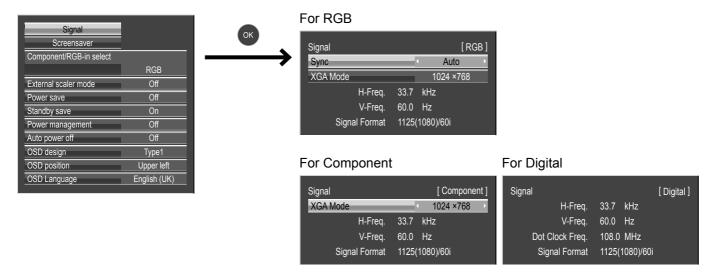
Notes:

- Selection may not be possible, depending on which optional board is installed.
- Make setting of the selected input terminal (SLOT1 or SLOT2).

Signal menu

Note:

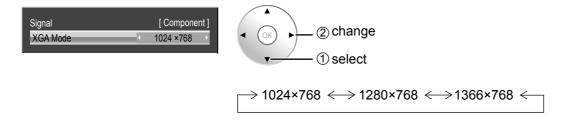
"Signal" setup menu displays a different setting condition for each input signal.



XGA Mode

This menu is displayed when the input signal is analog (Component/PC). This unit supports three types of XGA signals with 60Hz vertical frequency having different aspect ratios and sampling rates (1,024 × 768 @ 60Hz, 1,280 × 768 @ 60Hz, and 1,366 × 768 @ 60Hz). Be sure to make settings in accordance with the input signal in order to achieve a more appropriate and attractive display.

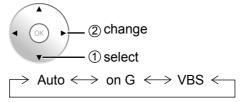
In addition, after making this setting, be sure to make each adjustment (such as "Auto Setup") on the "Pos. /Size" menu as necessary. (see page 30)



Sync

Select Signal from the "Setup" menu during RGB input signal.





Setting RGB sync signal:

Confirm that the input is set to RGB input (this setting is valid only for RGB input signal).

Auto: The H and V sync or synchronized signal are automatically selected. If both input, it is selected the H and V sync.

on G: Uses a synchronized signal on the Video G signal, which is input from the G connector. VBS: Uses a synchronized signal of Composite Sync input, which is input from the HD connector.

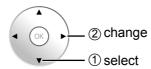
SDI Through

Set the active through function of the Dual Link HD-SDI Terminal Board (TY-FB11DHD).

Note:

Settings can only be performed for this menu when a slot mounted with a Dual Link HD-SDI Terminal Board (TY-FB11DHD) is selected.





 $Off \longleftrightarrow On$

On: Enables active through.Off: Disables active through.

Input signal display

Displays the frequency and the type of the current input signal.

This display is valid only for Component / RGB / PC and Digital input signal. Display range:

Horizontal 15 - 110 kHz Vertical 48 - 120 Hz

The dot clock frequency is displayed during digital signal input.

H-Freq. 33.7 kHz V-Freq. 60.0 Hz Signal Format 1125(1080)/60i

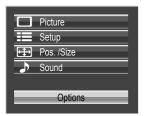
H-Freq. 33.7 kHz V-Freq. 60.0 Hz Dot Clock Freq. 108.0 MHz Signal Format 1125(1080)/60i

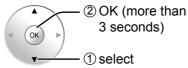
Options Adjustments

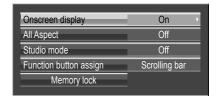
1 Display the menu screen.



- 2 Select "Options".
- 3 Press for more than 3 seconds.

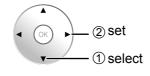






▲ Select the item and set.





5 Exit the menu.



Item	Adjustments							
Onscreen display	Power on display Input signal switch of No signal display Mute after was	Power on display Input signal switch display No signal display Mute after was pressed.						
All Aspect	With each press of Off: Default aspect On: All Aspect mode of each (Example: HD signal) Off 4:3→4:3 Full-	Off: Default aspect mode On: All Aspect mode Aspect mode of each setting is as follows: (Example: HD signal) Off 4:3→4:3 Full→Zoom1→Zoom2→Zoom3→16:9→14:9→Just						
	For switching function	ns in setting menus used for tel	evision studio applications.					
		Studio mode: On	Studio mode: Off					
	White balance	"Studio" can be selected.	"Studio" not available.					
Studio mode	Studio Gain	Can be switched On and Off.	Cannot be specified (set to "Off" and cannot be changed).					
	Display size	Can be switched On and Off.	Cannot be specified (set to "Off" and cannot be changed).					
	Specifies the function	n activated when the butto	on on the remote control is pressed.					
Function button assign	Scrolling bar: Activates the Scrolling bar only screensaver. After 15 minutes, the display enters standby mode.							
	Test patterns: Each	time you press 🕟, a different t	est pattern is displayed (seven in all).					
Memory lock	Locks or unlocks sav	ed profiles. Also for setting pas	swords. (see page 28)					

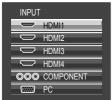
Watching Videos and DVDs

If you have applicable equipment connected to the Display, you can easily watch videos and DVDs using the Display's remote control.

You can select the external equipment to access.

To operate other manufacturers' equipment, you need to register the code for the equipment. (see page 43)

Select the input mode. (see page 13)





9 Select the remote control mode.

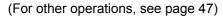


Press the key to select.

3 Operate the connected equipment, pointing Display's remote control at the equipment.

Example

·	VCR MODE	DVD MODE		
	VCR Record	Record		
	_	Skip Reverse/Forward		
★	Rewind/Fast Forward	Reverse/Forward		
	Stop	Stop		
11/1>	Pause	Pause		
	Play	Play		





Programming the Remote to Operate Peripheral Equipment

You can operate other manufacturers' equipment using this Display's remote control.

1 Connect the external equipment to the Display and Power Off the external equipment.

Press both buttons simultaneously for more than 3 seconds.

Release the buttons when the equipment selection buttons start flashing.

3 Select the equipment.

The selected button remains lit (other buttons are not lit).

4 Input the equipment's 4-digit remote control code.

(see page 47, 48)

5 Operate the equipment with the remote control.

(see page 47)

The external equipment turns On.

Press to return to the Display mode.





■ If the equipment does not operate with the remote control

- When your equipment has a single code
- → Input the remote control code again
- When your equipment has multiple codes
- → Change the code with 4 above and test again

Note:

Registration will fail if the wrong code is input or it takes more than 30 seconds to register.

To find a code not listed in the code list

This procedure searches all codes and is called the "sequence method."

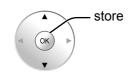
1 After step 3 above, change the code and test.



Operate the equipment with the remote control. (see page 47)

- · Repeat until the code is found.
- It may take many attempts before the correct code is found.

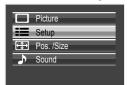
2 When the correct code is found.

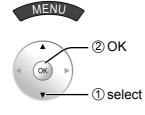


Shipping condition

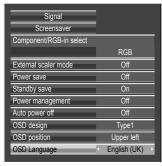
This function allows you to reset the unit to the factory setting.

- Display the menu screen.
- Select "Setup".





3 Select "OSD Language".

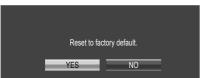


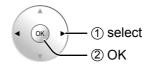


⚠ Press for more than 5 seconds.



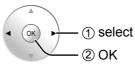
5 Select "YES".





6 Select "YES" and wait for 10 sec.





Note: RETURN

Press ____ to return to Setup menu when confirmation screen is displayed.

[from the unit]

- 1 Press the MENU button till the Setup menu is displayed.
- 2 Press the ▲ or ▼ button to select "OSD Language".
- 3 Press the ENTER button for more than 5 seconds.
- 4 Press the ▲ or ▼ button to select "YES".
- **5** Press the ENTER button.
- 6 Press the ▲ or ▼ button to select "YES".
- 7 Press the ENTER button and wait for 10 sec.

Executing this function restores all settings and adjustment values in the following menus to the factory-set default values, as shipped.

On-screen menu: Picture, Advanced settings, Setup, Pos. /Size, Sound, Options

Unlocking profiles (Memory lock: Off, Password: 0123)

Troubleshooting

Before you call for service, determine the symptoms and make a few simple checks as shown below.

Symptoms				Checks
1	Picture		Sound	Checks
	Interference		Noisy Sound	Electrical Appliances Cars / Motorcycles Fluorescent light
	Normal Picture		No Sound	Volume (Check whether the mute function has been activated on the remote control.)
?	No Picture		No Sound	Not plugged into AC outlet Not switched on Picture and Brightness/Volume setting (Check by pressing the power switch or stand-by button on the remote control.)
?	No Picture		Normal Sound	If a signal with a non-applicable colour system format, or frequency is input, only the input terminal indication is displayed.
	No Colour		Normal Sound	Colour controls set at minimum level (see page 20-23)
No remote	control operations	can be pe	erformed.	Check whether the batteries have discharged completely and, if they have not, whether they were inserted properly. Check whether the remote control sensor is exposed to an outdoor light or a strong fluorescent light. Check whether the remote control designed specifically for use with the unit is being used. (The unit cannot be operated by any other remote control.)
A cracking	sound is sometime	s heard f	rom the unit.	If there is nothing wrong with the picture or sound, this is the sound of the cabinet undergoing very slight contractions in response to changes in the room temperature. There are no adverse effects on the performance or other aspects.
	bottom of the pictu the zoom function		screen is cut off	Adjust the position of the picture on the screen.
Areas at the top and bottom of the screen where the image is missing appear when I use the zoom function.				When using a video software program (such as a cinema size program) with a screen wider than one in the 16:9 mode, blank areas separate from the images are formed at the top and bottom of the screen.
I can hear s	sounds coming from	m inside t	he unit.	When the power is turned on, a sound of the display panel being driven may be heard: This is normal and not indicative of malfunctioning.
	a Display uses spe l. However, this is r			nce a slight time lag may occur between image and audio, depending on the type of

Plasma Display panel

Piasma Display panel	
Symptoms	Check
The screen darkens slightly when bright pictures with minimal movements are shown.	The screen will darken slightly when photos, still images of a computer or other pictures with minimal movements are shown for an extended period. This is done to reduce image retention on the screen and the shortening of the screen's service life: It is normal and not indicative of malfunctioning.
It takes a while for the picture to appear.	The unit digitally processes the various signals in order to reproduce esthetically pleasing images. As such, it sometimes takes a few moments for the picture to appear when the power has been turned on, when the input has been switched.
The edges of the images flicker.	Due to the characteristics of the system used to drive the panel, the edges may appear to flicker in the fast-moving parts of the images: This is normal and not indicative of malfunctioning.
The brightness on both sides of images in the 4:3 mode changes.	When viewing the side panels at the "High" or "Mid" setting, the brightness on both sides may change depending on the kind of program shown: This is normal and not indicative of malfunctioning.
Some parts of the screen do not light up.	The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction.
Example	Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display. Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode. Note: The permanent image retention on the Plasma Display resulting from fixed image use is not an operating
Image retention appears	defect and as such is not covered by the Warranty. This product is not designed to display fixed images for extended periods of time.
Whirring sounds can be heard from the display unit.	The display unit is fitted with a cooling fan to dissipate heat generated during normal use. The whirring sound is caused by rotation of the fan and is not a malfunction.

List of Aspect Modes

Asp	ect mode		
All Aspect: On	Factory setting All Aspect: Off	Picture → Enlarged screen	Description
16:9	16:9	• • • • • • • • • • • • • • • • • • • •	The display of the pictures fills the screen. In the case of SD signals, pictures with a 4:3 aspect ratio are enlarged horizontally, and displayed. This mode is suited to displaying anamorphic pictures with a 16:9 aspect ratio.
14:9	14:9	→ O	Letterbox pictures with a 14:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen vertically and is slightly smaller than the screen horizontally. The top and bottom edges of the pictures are cut off. Side panels are displayed at the left and right edges of the screen.
Just Just1	Just	•	Pictures with a 4:3 aspect ratio are enlarged horizontally so that the picture distortion is minimized. The display of the areas around the left and right edges of the screen is slightly elongated.
Just2	-	•	The pictures with a 4:3 aspect ratio among the 16:9 aspect ratio signals are enlarged horizontally so that the picture distortion is minimized. The left and right edges of the pictures are cut off. The display of the areas around the left and right edges of the screen is slightly elongated.
4:3 4:3 (1)	4:3	→ O	Pictures with a 4:3 aspect ratio are displayed with their original aspect ratio. Side panels are displayed at the left and right edges of the screen.
4:3 (2)	-	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	The pictures with a 4:3 aspect ratio among the 16:9 aspect ratio signals are displayed with their original aspect ratio. The left and right edges of the pictures are masked with side panels.
4:3 Full	4:3 Full	•	The pictures with a 4:3 aspect ratio among the 16:9 aspect ratio signals are enlarged horizontally so that their display fills the screen. The left and right edges of the pictures are cut off.
Zoom Zoom1	Zoom1	•	Letterbox pictures with a 16:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen. The top and bottom edges of the pictures are cut off.
Zoom2	Zoom2	•	The letterbox pictures with a 2.35:1 aspect ratio among the 16:9 aspect ratio signals are enlarged vertically and horizontally so that their display fills the screen. The top and bottom edges as well as the left and right edges of the pictures are cut off.
Zoom3	Zoom3	•	Letterbox pictures with a 2.35:1 aspect ratio are enlarged vertically and horizontally so that their display fills the screen vertically and is slightly larger than the screen horizontally. The top and bottom edges as well as the left and right edges of the pictures are cut off.

Remote Control Operation / Code List

The following explains how to operate external devices with the Display's remote control. Register the remote control codes (page 43) if you want to operate an external device from another manufacturer. (see page 47, 48)

Note:

Operation may not be possible depending on the available memory size of the remote control. This remote control is not designed to cover operation of all functions of all models.

Remote Control Operation List

This chart defines which keys are operational after programming (if needed) while in the selected remote control mode, CABLE, DBS, VCR, or DVD.

KEY NAME	VCR MODE	DBS/CE	BL MODE	DVD MODE	
NET NAME	VCR MODE	(DBS)	(CBL)	DAD MIODE	
Ö	Power	Power	Power	Power	
MENU	_	Menu	Menu	Functions	
RETURN	_	PPV/VOD	PPV/VOD	Return	
•	_	Up/Down/Left/Right	Up/Down/Left/Right	Up/Down/Left/Right	
◆ OK →	_	Select	Select	Enter	
CH INPUT	Channel Up/Down	Channel Up/Down	Channel Up/Down	Channel Up/Down	
0_9	0-9	0-9	0-9	0-9	
K4 M	_	Page Down/Up	Page Down/Up	Skip Reverse/Forward	
TV/VCR	TV/VCR Switch	TV/DBS Switch	TV/CBL Switch	_	
← →	Rewind/Fast Forward	Rewind/Fast Forward	Rewind/Fast Forward	Reverse/Forward	
	Record	Record *1	Record *1	Record	
	Stop	Stop	Stop	Stop	
11/1>	Pause	Pause	Pause	Still/Pause	
	Play	Play	Play	Play	

^{*1:} Combination type

Remote Control Code List

DBS / CABI	LE (Cable Set Top Bo	X) DBS/CBL					
Brand	Code	Brand	Code	Brand	Code	Brand	Code
ABC	0003, 0008, 0014, 0017	GoldStar	0144	Paragon	0000	Starcom	0003
Americast	0899	Hamlin	0009, 0273	Philips	0317, 1305	Supercable	0276
Amino	1602, 1822	i3 Micro	1602	Pioneer	0144, 0533, 0877, 1877	Supermax	0883
Bell & Howell	0014	Jerrold	0003, 0012, 0014, 0276, 0476,	Pulsar	0000	Thomson	1256
Bell South	0899		0810	Quasar	0000	Tocom	0012
Clearmaster	0883	Memorex	0000	RadioShack	0883	Torx	0003
ClearMax	0883	Motorola	0276, 0476, 0810, 1106, 1187,	RCA	1256	Toshiba	0000
Coolmax	0883		1254, 1376	Regal	0273, 0279	Tristar	0883
Digeo	1187	Multitech	0883	Runco	0000	V2	0883
Digi	0637	Myrio	1602, 1822	Samsung	0144	Viewmaster	0883
Director	0476	Pace	0008, 0237, 1877	Scientific Atlanta	0008, 0017, 0477, 0877, 1877	Vision	0883
Dumont	0637	Panasonic	0000, 0107, 1786	Sejin	1602	Vortex View	0883
General Instrument	0003, 0276, 0476, 0810	Panther	0637	Sony	1006	Zenith	0000, 0525, 0899

Brand	Code	Brand	Code	Brand	Code	Brand	Code
AlphaStar	0772	GE	0566	Memorex	0724	Sony	0639, 1639, 1640
Century	0856	General Instrument	0869	Mitsubishi	0749	Star Choice	0869
Chaparral	0216	GOI	0775, 1775	Motorola	0869	Tivo	1142, 1442, 1443, 1444, 1538, 1539
Crossdigital	1109	Gradiente	0856	Next Level	0869		
DirecTV	0099, 0247, 0392, 0566, 0639, 0724, 0749, 0819, 1076, 1108, 1109, 1142, 1377, 1392, 1414, 1442, 1443, 1444, 1538, 1539, 1609, 1639, 1640, 1749, 1856	Hisense	1535	Panasonic	0247, 0701	Toshiba	0749, 0790, 1285, 1749
		Hitachi	0819, 1250	Paysat	0724	UltimateTV	1392, 1640
		HTS	0775, 1775	Philips	0099, 0722, 0724, 0749, 0856, 1076, 1142, 1442, 1749	Uniden	0724, 0722
			0749, 1142, 1442, 1443, 1444,	_		US Digital	1535
Dish Network System	0775, 1005, 1170, 1171, 1505, 1775	Systems	1538, 1539, 1749	Proscan	0392, 0566	USDTV	1535
		Humax	1790	Proton	1535	Voom	0869
Dishpro	0775, 1005, 1505, 1775	iLo	1535	RadioShack	0869	Zenith	0856, 1856
Echostar	0775, 1005, 1170, 1171, 1505, 1775	JVC	0775, 1170, 1775	RCA	0566, 0855, 0143, 1392		·
		LG	1226, 1414	Samsung	1108, 1109, 1276, 1377, 1442, 1609		
Expressvu	0775, 1775	Magnavox	0724, 0722				

Remote Control Operation / Code List

Remote Control Code List (Continued)

Code						
	Brand	Code	Brand	Code	Brand	Code
1972	Gradiente	0000	Nikko	0037	Singer	0072
					_	0614, 0616, 1615, 1616
-						0000, 0032, 0033, 0035, 0636
		· ·			Cony	1032, 1232, 1972
	_				Stack 0	1972
						0042
			Opumus	0593, 1062, 1162, 1262		
-			Orien	0000 0404 0200 0470 4470	Sylvania	0000, 0035, 0043, 0081, 0593 1593, 1781
					Commission	0000 0502 4502
		· ·	Panasonic	1035, 0162, 0225, 0614, 0616,		0000, 0593, 1593
					,	1972
· ·			Penney		· ,	1972
						0041
						0000, 0041
0002, 0121, 0184, 0209, 0479,					Technics	0035, 0162
	_		Philips	0035, 0081, 0618, 0739, 1081, 1181		0000, 0035, 0037
0037	JVC	0041, 0067			Thomas	0000
0035	KEC	0037, 0278	Pilot	0037	Tivo	0618, 0636, 0739, 0740, 0745 1239, 1240, 1503, 1996
0081	Kenwood	0038, 0041, 0067	Pioneer	0067		1239, 1240, 1503, 1996
0072, 0278	KLH	0072	Polk Audio	0081	TMK	0240
0037, 0278, 1278	Kodak	0035, 0037	Presidian	1593	Toshiba	0043, 0045, 0845, 1008, 1145
0072	LG	1037	Profitronic	0240		1503, 1972, 1996
0037, 0047, 0072, 0240	Linksys	1972	Proscan	0060, 1060	Totevision	0037, 0240
0035, 0041, 0060, 0162, 1035	Lloyd's	0000	Protec	0072	Touch	1972
0240	Logik	0072	Pulsar	0039	Unitech	0240
1972	LXI	0037	Quasar	0035, 0162, 1035, 1162	Vector	0045
0045, 0278, 1278	Magnasonic	0593, 1278	RadioShack	0000, 1037	Vector Research	0038
1972		0000, 0035, 0039, 0081, 0149,	Radix	0037	Video Concepts	0045
0042	_	0563, 0593, 1593, 1781	Randex	0037		0037
0739, 0740, 0745, 1239, 1240	Magnin	0240	RCA	0042, 0060, 0149, 0240, 0807,	Videosonic	0240
			_	0880, 1035, 1060	Viewsonic	1972
,			Realistic	0000 0035 0037 0047 0048		0000
				0104		1972
	_		RenlavTV	0614 0616 1615 1616		0000, 0035, 0042, 0047, 0048
		****			Wards	0060, 0072, 0081, 0149, 0240
		0048, 0104, 0162, 0209, 0240,			White Westinghouse	0072, 0209
0184, 0209, 0278, 0479, 0593,		0479, 1037, 1162, 1237, 1262				0000, 0035, 0072
1278, 1479, 1593	MCA	0240 0042				0000, 0035, 0072
0047 0104		<u> </u>				
			Sansui	1479	Zenilli	0000, 0033, 0039, 0209, 0479 1479
		-	Canna	0047 0404 0240	77 0	
					Z1 Group	1972
			Sears	0000, 0035, 0037, 0042, 0047, 0104, 1237		
0035, 0060, 0240, 0807, 1035,	Motorola	0035, 0048				
	MTC	0000, 0240	Sharp	0048, 0807, 0848		
0432, 0614	Multitech	0000, 0072	Shintom	0072		
	0048, 0209 0000 0278 0000, 0037, 0124 0041 1972 0278 0035 0240 0037, 0278 0240 0104 0002, 0121, 0184, 0209, 0479, 1479 1479 0037 0037 0038 0081 0072, 0278 0037, 0278, 1278 0072 0037, 0278, 1278 0072 0037, 0278, 1278 0072 0037, 0278, 1278 0072 0037, 047, 072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0045, 0278, 1278 1972 0045, 0278, 1278 1972 0046, 0278, 1278 1972 0047, 00745, 1239, 1240 0038, 0039 0000 0037 0037 0037 0037 0037 0037	Marley Davidson	Harley Davidson Harrwood 0000 Harmani/Kardon 0038, 0081 Harmani/Kardon 0038, 0081 Harmani/Kardon 0072	Harley Davidson Harman/Kardon 0000 Noblex Noblex Noblex Noblex Noblex Noblex Noblex Noblex Noblex Northgate 0000, 0037, 0124 Hewlett Packard 1972 Olympus Olympu	Dota Davids Harriey Davidson Dota Dota	Docks (2009 Harfery Davidson Dock (2007 Harman Kardon Harman Kardon

DVD Record	der / Player						
Brand	Code	Brand	Code	Brand	Code	Brand	Code
Accurian	1072, 1416	Fisher	0670	Marantz	0539	Sanyo	0670, 0695, 0873
Advent	1016	Funai	0675, 1268, 1334	Memorex	0695, 0831, 1270	Sensory Science	1158
Aiwa	0641	Gateway	1073, 1077, 1158, 1194	Microsoft	0522, 1708	Sharp	0630, 0675, 0752, 1256
Akai	0695, 0770, 0899, 1089	GE	0522, 0815, 0717	Mintek	0717, 0839	Sharper Image	1117
Alco	0790	Go Video	0715, 0741, 0744, 0783, 0833,	Mitsubishi	0521, 1521	Sherwood	0633, 0770, 1043, 1077
Allegro	0869		0869, 1044, 1075, 1099, 1158, 1304, 1730	Momitsu	1082	Shinsonic	0533, 0839
Amphion Media Works	0872			NAD	0741	Sonic Blue	0869, 1099
Apex Digital	0672, 0717, 0755, 0794, 0796,	Go Vision	1071, 1072	NEC	0785	Sony	0533, 0864, 1033, 1070, 1431,
	0797, 0830, 1004, 1020, 1056, 1061, 1100	GoldStar	0741	Nesa	0717	-	1533
	,	Greenhill	0717	Next Base	0826	Sova	1122
Arrgo	1023	Harman/Kardon	0582, 0702	NexxTech	1402	Superscan	0821
Aspire Digital	1168, 1407	Hitachi	0573, 0664, 1247	Norcent	0872, 1003, 1107, 1265	SVA	0860, 1105
Audiovox	0790, 1071, 1072, 1121, 1122	Hiteker	0672	Onkyo	0503, 0627, 0792	Sylvania	0675, 0821, 1268
Axion	1071, 1072	Humax	1588	OptoMedia Electronics	0896	Symphonic	0675, 0821
Blaupunkt	0717	iLo	1348	Oritron	0651	Teac	0790
Blue Parade	0571	Initial	0717	Panasonic	0490, 0703, 1362, 1462, 1490,	Technics	0490, 0703
Broksonic	0695, 0868	Insignia	1268	_	1762, 1779, 2060, 2061, 2062	Technosonic	0730
Cinea	0831	Integra	0627	Philips	0503, 0539, 0646, 0675, 0854,	Theta Digital	0571
CineVision	0833, 0869, 0876	JBL	0702	_	1260, 1267, 1354	Toshiba	0503, 0695, 1045, 1154, 1588, 17
Citizen	0695, 1277	Jensen	1016	Pioneer	0525, 0571, 0631		
Coby	0778, 0852, 1086, 1107, 1165, 1177	JSI	1423	Polaroid	1020, 1061, 1086	Tredex	0800
		JVC	0558, 0623, 0867, 1164	Polk Audio	0539	Urban Concepts	0503
Craig	0831	jWin	1049	Portland	0770	US Logic	0839
Curtis Mathes	1087	Kawasaki	0790	Presidian	0675, 1072	Venturer	0790
CyberHome	0816, 0874, 1023, 1024, 1117,	Kenwood	0490, 0534	Prima	1016	Vizio	1064, 1226
	1129, 1502	KLH	0717, 0790, 1020, 1149	Proscan	0522	Xbox	0522, 1708
Daewoo	0705, 0784, 0833, 0869, 1169,	Konka	0711, 0719, 0720	ProVision	0778	Yamaha	0490, 0539, 0545
	1172, 1234, 1242, 1441	Koss	0651, 0896, 1423	Qwestar	0651	Zenith	0503, 0591, 0741, 0869
Denon	0490, 0634	Landel	0826	RCA	0522, 0571, 0717, 0790, 0822,	Zoece	1265
Desay	1407	Lasonic	0798, 1173		1022, 1132, 1769	AMW	0872
Disney	0675, 1270	Lenoxx	1127	Rio	0869		·
Dual	1068, 1085	LG	0591, 0741, 0801, 0869	Rotel	0623	-	
Durabrand	1127	LiteOn	1058, 1158, 1416, 1440	Rowa	0823		
DVD2000	0521	Loewe	0511, 0885	Sampo	0698, 0752	-	
Emerson	0591, 0675, 0821, 1268	Magnavox	0503, 0539, 0646, 0675, 0821,	Samsung	0199, 0490, 0573, 0820, 0899,	Ī	
Enterprise	0591	-	1268		1044, 1075		
ESA	0821, 1268	Malata	0782, 1159	Sansui	0695	-	
			•		•		

Applicable Input Signals

				Component / RGB	
	Signal name	Horizontal frequency	Vertical frequency	/ Mini D-sub 15P	DVI-D *8
	olgilai hame	(kHz)	(Hz)	(Dot clock (MHz))	(Dot clock (MHz))
1	525 (480) / 60i	15.73	59.94	* (13.5)	
2	525 (480) / 60p	31.47	59.94	* (27.0) *5	* (27.0)
3	625 (166) / 50j	15.63	50.00	* (13.5)	(21.0)
4	625 (575) / 50p	31.25	50.00	* (27.0)	
5	625 (576) / 50p	31.25	50.00	(27.0)	* (27.0)
6	750 (720) / 60p	45.00	60.00	* (74.25)	* (74.25)
7	750 (720) / 50p	37.50	50.00	* (74.25)	* (74.25)
8	1,125 (1,080) / 60p	67.50	60.00	* (148.5) *1	* (148.5)
9	1,125 (1,080) / 60i	33.75	60.00	* (74.25) *1	* (74.25)
10	1,125 (1,080) / 50p	56.26	50.00	* (148.5) *1	* (148.5)
11	1,125 (1,080) / 50i	28.13	50.00	* (74.25) *1	* (74.25)
12	1,125 (1,080) / 24sF	27.00	48.00	* (74.25) *2	(14.20)
13	1,125 (1,080) / 248F	33.75	30.00	* (74.25) *1	* (74.25)
14	1,125 (1,080) / 25p	28.13	25.00	* (74.25) *1	* (74.25)
15	1,125 (1,080) / 24p	27.00	24.00	* (74.25) *1	* (74.25)
16	1,250 (1,080) / 50i	31.25	50.00	* (74.25) *3	(74.23)
17	2,048 × 1,080 / 24sF *7	27.00	48.00	(74.23) *3	
18		27.00	24.00		
19	2,048 × 1,080 / 24p *7 640 × 400 @70 Hz	31.46	70.07	* (25.17)	
20			59.94	* (25.17) * (25.18) *6	* (25.40)
21	640 × 480 @60 Hz	31.47			* (25.18)
	640 × 480 @72 Hz	37.86	72.81	* (31.5)	
22	640 × 480 @75 Hz	37.50	75.00	* (31.5)	
23	640 × 480 @85 Hz	43.27	85.01	* (36.0)	
24	800 × 600 @56 Hz	35.16	56.25	* (36.0)	* (40.0)
25	800 × 600 @60 Hz	37.88	60.32	* (40.0)	* (40.0)
26	800 × 600 @72 Hz	48.08	72.19	* (50.0)	
27	800 × 600 @75 Hz	46.88	75.00	* (49.5)	
28	800 × 600 @85 Hz	53.67	85.06	* (56.25)	* (0.4.0.4)
29	852 × 480 @60 Hz	31.47	59.94	* (33.54) *6	* (34.24)
30	1,024 × 768 @50 Hz	39.55	50.00	* (OF O)	* (51.89)
31	1,024 × 768 @60 Hz	48.36	60.00	* (65.0)	* (65.0)
32	1,024 × 768 @70 Hz	56.48	70.07	* (75.0)	
33	1,024 × 768 @75 Hz	60.02	75.03	* (78.75)	
34	1,024 × 768 @85 Hz	68.68	85.00	* (94.5)	* (50.0)
35	1,066 × 600 @60 Hz	37.64	59.94	* (53.0)	* (53.0)
36	1,152 × 864 @60 Hz	53.70	60.00	* (400.0)	* (81.62)
37	1,152 × 864 @75 Hz	67.50	75.00	* (108.0)	
38	1,280 × 768 @60 Hz	47.70	60.00	* (80.14)	
39	1,280 × 960 @60 Hz	60.00	60.00	* (108.0)	
40	1,280 × 960 @85 Hz	85.94	85.00	* (148.5)	* (400.0)
41	1,280 × 1,024 @60 Hz	63.98	60.02	* (108.0)	* (108.0)
42	1,280 × 1,024 @75 Hz	79.98	75.03	* (135.0)	
43	1,280 × 1,024 @85 Hz	91.15	85.02	* (157.5)	* (00 00)
44	1,366 × 768 @50 Hz	39.55	50.00	+ (00 74)	* (69.92)
45	1,366 × 768 @60 Hz	48.36	60.00	* (86.71)	* (87.44)
46	1,400 × 1,050 @60 Hz	65.22	60.00	+ (400.0)	* (122.61)
47	1,600 × 1,200 @60 Hz	75.00	60.00	* (162.0)	* (162.0)
48	1,600 × 1,200 @65 Hz	81.25	65.00	* (175.5)	# / / · · · · · ·
49	1,920 × 1,080 @60 Hz	67.50	60.00	* (148.5) *4	* (148.5)
50	1,920 × 1,200 @60 Hz	74.04	59.95	4 (22.24)	* (154.0)
51	Macintosh13" (640 × 480)	35.00	66.67	* (30.24)	
52	Macintosh16" (832 × 624)	49.72	74.54	* (57.28)	
53	Macintosh21"(1,152 × 870)	68.68	75.06	* (100.0)	
	local on CMDTE 274M stone			T DD011 standard	

^{*1:} Based on SMPTE 274M standard.

Note: Signals without above specification may not be displayed properly.

^{*2:} Based on SMPTE RP211 standard.

^{*3:} Based on SMPTE 295M standard.

^{*4:} The input signal is recognized as 1,125 (1,080) / 60p.

^{*5:} When selected the RGB format and 525p signal input to the Mini D-sub 15P terminal, it is recognized as VGA 60Hz signal.

^{*6:} When inputted VGA 60Hz format signal from the other than Mini D-sub 15P terminal, it is recognized as 525p signal.

^{*7:} Based on SMPTE 292M and 372M standards. These signals can be received when the Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed.

^{*8:} These signals can be received when the DVI-D Terminal Board (TY-FB11DD) is installed.

Applicable Input Signals

VIDEO input (HDMI)

S	ignal format	Vertical frequency (Hz)	Horizontal frequency (kHz)	Dot clock (MHz)	Number of active pixels	Total number of pixels	Number of active lines	Total number of lines
1	VGA60	59.94	31.47	25.18	640	800	480	525
2	525/60p	59.94	31.47	27.00	720	858	480	525
3	625/50p	50.00	31.25	27.00	720	864	576	625
4	750/60p	60.00	45.00	74.25	1280	1650	720	750
5	750/50p	50.00	37.50	74.25	1280	1980	720	750
6	1125/60i	60.00	33.75	74.25	1920	2200	1080	1125
7	1125/50i	50.00	28.13	74.25	1920	2640	1080	1125
8	1125/60p	60.00	67.50	148.50	1920	2200	1080	1125
9	1125/50p	50.00	56.26	148.50	1920	2640	1080	1125
10	1125/24p	24.00	27.00	74.25	1920	2750	1080	1125

Audio signal Linear PCM: 48/44.1/32 kHz

Specifications

		TH-50VX100E	TH-65VX100E
Power Source		220 - 240 V AC, 50/60 Hz	
Po	wer Consumption		
	Power on	485 W	710 W
	Stand-by condition	Save off 1.2 W, Save on 0.7 W	Save off 1.2 W, Save on 0.7 W
	Power off condition	0.4 W	0.4 W
Plasma Display panel		Drive method : AC type	Drive method : AC type
		50-inch, 16:9 aspect ratio	65-inch, 16:9 aspect ratio
Screen size		1,106 mm (W) × 622 mm (H)	1,434 mm (W) × 807 mm (H)
		× 1,269 mm (diagonal)	× 1,646 mm (diagonal)
	(No.of pixels)	2,073,600 (1,920 (W) ×1,080 (H))	
		[5,760 × 1,080 dots]	
Op	erating condition		
Temperature Humidity		0 °C - 40 °C	
		20 % - 80 %	
Аp	plicable signals		
	Scanning format	525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 750 (720) / 60p · 50p, 1125 (1080) / 60i · 60p · 50i · 50p · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i	
	PC signals	VGA, SVGA, XGA, SXGA	
		UXGA ···· (compressed)	
		Horizontal scanning frequency 15 - 110 kHz	
		Vertical scanning frequency 48 - 120 Hz	
Cor	nnection terminals		
	HDMI A-B	TYPE A Connector × 4	
	COMPONENT/RGB IN	Y/G (RCA PIN JACK)	with sync 1.0 Vp-p (75 Ω)
		PB/B, PR/R (RCA PIN JACK)	0.7 Vp-p (75 Ω)
		AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms
	PC IN	(HIGH-DENSITY MINI D-SUB 15PIN)	Y or G with sync 1.0 Vp-p (75 Ω)
		D/Da/Ca	Y or G without sync 0.7 Vp-p (75 Ω) : 0.7 Vp-p (75 Ω)
			: 0.7 Vp-p (75 Ω) : 0.7 Vp-p (75 Ω)
			1.0 - 5.0 Vp-p (high impedance)
		VBS (use HD port)	with picture 1.0 Vp-p (high impedance)
		120 (000 1.2 polity	without picture 0.3 Vp-p (high impedance)
		AUDIO IN (M3 JACK)	0.5 Vrms
	SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9F	
	Speaker terminal	6 Ω, 16 W [8 W + 8 W] (10 % THD)	8 Ω, 20 W [10 W + 10 W] (10 % THD)
Ac	cessories Supplied		
	Remote Control Transmitter	N2QAYB000323	
	Batteries	2 × R6 Size	
	Fixing band	TMME203 × 1	
Dimensions (W × H × D)		1,210 mm × 724 mm × 93 mm	1,554 mm × 924 mm × 94 mm
Din	nensions (w × m × D)	1.2 10 11111 ^ 12 1 11111 ^ 33 11111	1.554 11111 ^ 324 11111 ^ 34 11111

Notes:

- Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.
- This equipment complies with the EMC standards listed below. EN55022, EN55024, EN61000-3-2, EN61000-3-3.

Information for Users on Collection and Disposal of Old Equipment and used Batteries



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.



By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.



For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.



[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Customer's Record

The model number and serial number of this product can be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number

Serial Number

Pursuant to the directive 2004/108/EC, article 9(2)
Panasonic Testing Centre
Panasonic Service Europe, a division of Panasonic Marketing Europe GmbH
Winsbergring 15, 22525 Hamburg, F.R. Germany

Panasonic Corporation

Web Site: http://panasonic.net/
© Panasonic Corporation 2008

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com