

Flat Panel Display

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お買い上げいただきありがとうございます。



電気製品は安全のための注意事項を守らないと、
火災や人身事故になることがあります。

この取扱説明書には、事故を防ぐための重要な注意事項と製品の取り扱い方を示してあります。この取扱説明書をよくお読みのうえ、製品を安全にお使いください。お読みになったあとは、いつでも見られるところに必ず保管してください。

FWD-50PX2/50PX2A

WARNING

Owner's Record

The model and serial numbers are located on the rear. Record the model and serial numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

On transportation

When you carry the display unit, hold the unit itself, not the speakers. If you fail to do so, the speakers may come out of the unit and the unit may fall. This can cause injury.

For customers in the U.S.A.

If you have any questions about this product, you may call; Sony Customer Information Services Center 1-800-222-7669 or <http://www.sony.com/>

Declaration of Conformity

Trade Name: SONY
Model: FWD-50PX2/50PX2A
Responsible Party: Sony Electronics Inc.
Address: 16450 W. Bernardo Dr,
San Diego, CA 92127 U.S.A.
Telephone Number: 858-942-2230

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For customers in Canada

This class B digital apparatus complies with Canadian ICES-003.

Voor de klanten in Nederland

- Dit apparaat bevat een vast ingebouwde batterij die niet vervangen hoeft te worden tijdens de levensduur van het apparaat.
- Raadpleeg uw leverancier indien de batterij toch vervangen moet worden. De batterij mag alleen vervangen worden door vakbekwaam servicepersoneel.
- Gooi de batterij niet weg maar lever deze in als klein chemisch afval (KCA).
- Lever het apparaat aan het einde van de levensduur in voor recycling, de batterij zal dan op correcte wijze verwerkt worden.



The socket-outlet should be installed near the equipment and be easily accessible.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE LOCAL RULES.

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Precautions

On safety

- A nameplate indicating operating voltage, power consumption, etc. is located on the rear of the unit.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for several days or more.
- To disconnect the AC power cord, pull it out by grasping the plug. Never pull the cord itself.
- When you install the unit on the floor, be sure to use the optional stand.

On installation

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- When you install multiple equipment with the unit, the following problems, such as malfunction of the Remote Commander, noisy picture, noisy sound, may occur depending on the position of the unit and other equipment.

On the PDP (Plasma Display Panel)

- You may see some bright spots of red, blue or green remain, or dark spots appear on the screen. These do not indicate malfunction. Although the plasma display panel is manufactured with extremely high precision technology, it can generate a few dark or bright pixels. Dark spots on the edge of the screen, or striped color and brightness irregularities do not indicate malfunction.
- Do not display the same still image on the screen for a long time. Otherwise, an afterimage or ghost may appear on a part of the panel. Use the screen saver function to equalize use of the screen display.
- Because of the way it is made, when this plasma display panel is used in places with low air pressure, such as at high altitudes, a buzzing or humming noise may emanate from the unit.

- If you continue to display the same image on the screen for a long period of time, part of that image may burn into the screen and leave a ghosting image behind. To avoid this, please use the screen saver function provided to equalize use over the entire screen. If ghosting occurs, use the screen saver function, or use some kind of video or imaging software to provide constant movement on the screen. If light ghosting (image burn-in) occurs, it may become less conspicuous, but once burn-in occurs, it will never completely disappear.
- To protect the plasma display, this unit will not accept commands from the Remote Commander or from the function buttons on the unit for a certain period of time after the unit has been switched ON/STANDBY. After one of these operations, wait about 10 seconds before entering a command.

On cleaning

- Be sure to unplug the power cord before cleaning the display.
- Gently wipe off stains using a dry, soft cloth. Wipe off grimy stains using a cloth slightly moistened with a mild detergent, then wipe the area again using a dry, soft cloth.
- Never use rubbing alcohol, benzine or thinner for cleaning. They may damage the finish of the cabinet or can remove the markings on it.

Notes on handling and cleaning the display panel

The display panel's special surface finish should be treated with care when cleaning or handling the TV. When cleaning it, use a soft cleaning cloth to avoid touching the panel directly.

On repacking

Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit, repack it as illustrated on the carton.

If you have any questions on this unit, contact your authorized Sony dealers.

Disposal of Waste Electrical and Electronic Equipment for business use (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable take-back scheme for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly,

you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Sony office or visit Sony Europe's web site for business customers:
<http://www.sonybiz.net/environment>

Warning on power connection

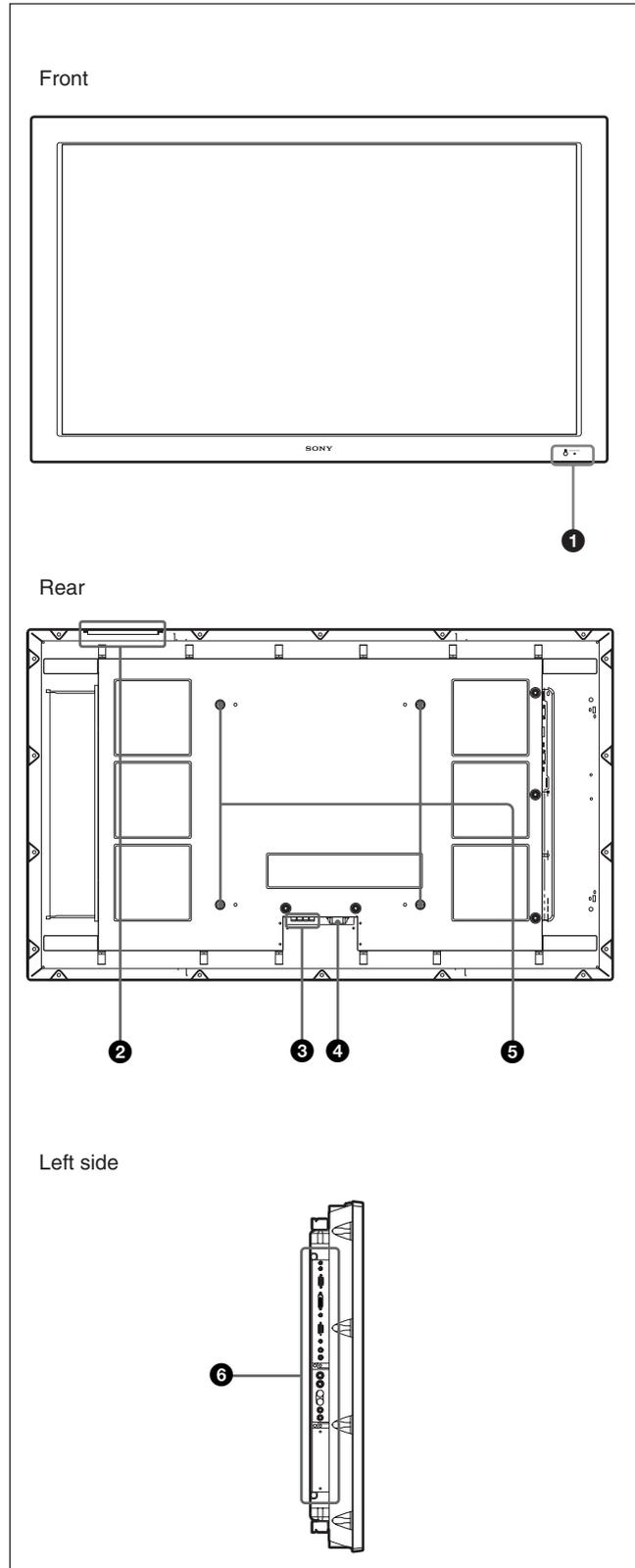
Use the proper power cord for your local power supply.

	United States, Canada	Continental Europe	United Kingdom, Ireland, Australia, New Zealand	Japan
Plug type	VM0233	COX-07 636	— ^{a)}	VM1296
Female end	VM0089	COX-02 VM0310B	VM0303B	VM1313
Cord type	SVT	H05VV-F	CEE (13) 53rd (O.C)	HVCTF
Minimum cord set rating	10A/125V	10A/250V	10A/250V	10A/125V
Safety approval	UL/CSA	VDE	VDE	DENAN-HO

a) Note: Use an appropriate rating plug which complies with local regulations.

Location and Function of Parts and Controls

Front / Rear / Left side



1 Indicator section

For details on the Indicator section, see “Indicator Section” on page 8 (GB).

2 Control button section

For details on the control button section, see “Control Button Section (Top)” on page 8 (GB).

3 SPEAKER Socket

Connects the speakers (not supplied) to this socket to output the audio matching the signal displayed on the screen.

4 ~ AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet. Once you connect the AC power cord, the POWER/STANDBY indicator lights up in red and the display goes into the standby mode.

For more details on the power cord, see “Connecting the AC Power Cord” on page 14 (GB).

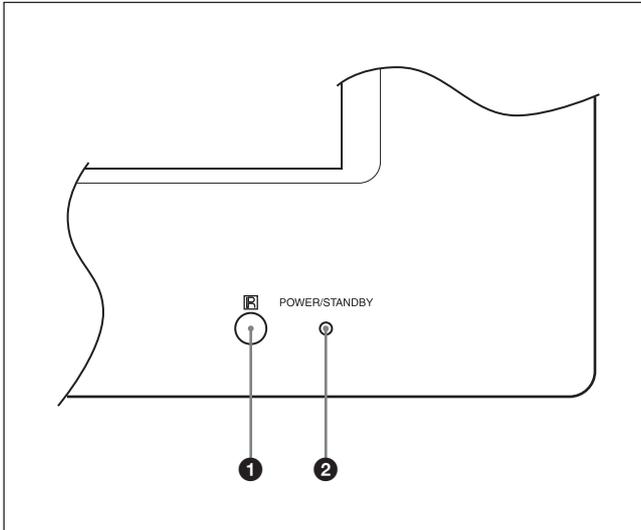
5 Stand installation hooks

Use these hooks to install the stand (not supplied).

6 Connector panel

For details on the connector panel, see “Connector Panel” on page 9 (GB).

Indicator Section



1 Remote control detector

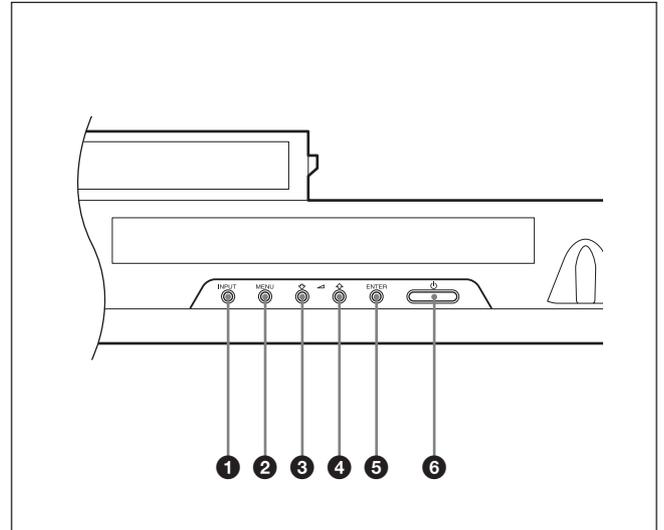
Receives the signals from the Remote Commander.

2 POWER/STANDBY indicator

Lights up in green when the display unit is powered on. Lights up in red in the standby mode. Lights up in orange when the display enters the power saving mode while a signal is input from a computer.

When the POWER/STANDBY indicator blinks, see “Self-diagnosis Function” on page 43 (GB).

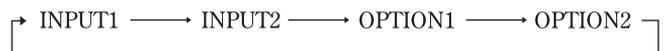
Control Button Section (Top)



1 INPUT button

Press to select a signal to be input from the INPUT or OPTION connector.

The signal to be input switches as follows each time you press the INPUT button.



When an option adaptor is not installed in the OPTION slot, OPTION will be skipped.

2 MENU button

Press to show menus. Press again to hide them.

3 4 ↓/↑ (cursor/volume) button

Press to move the cursor (yellow), set a value, or control speaker volume.

5 ENTER button

Press to set your choice.

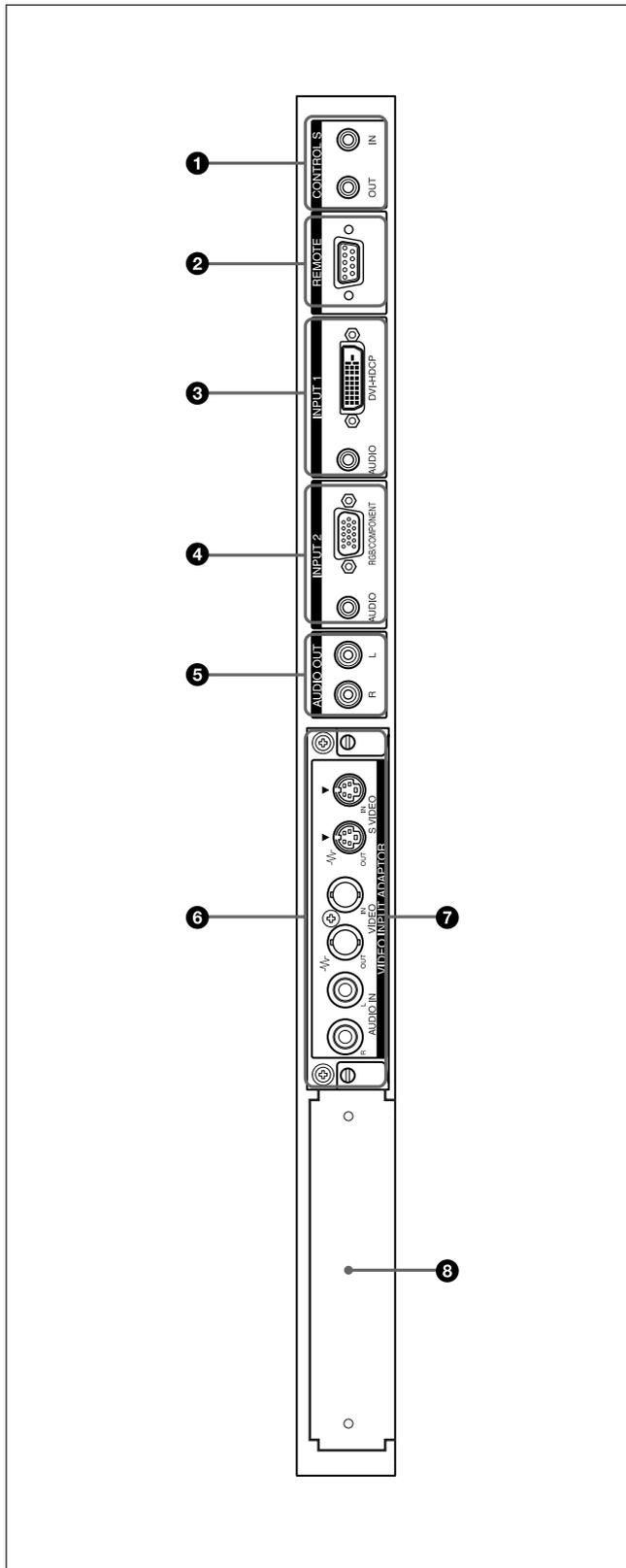
6 ⏻ POWER switch

Press to power on the display unit. Press again to return to the standby mode.

Note

To protect the panel, a certain amount of time is required to turn the unit ON/STANDBY. Wait about 10 seconds after one of these operations before executing the next operation.

Connector Panel



1 CONTROL S IN/OUT (Control S Signal Input/Output) Connector (Minijack)

You can control multiple devices with a single remote commander when connected to the CONTROL S connector of a video device or other display. Connect the CONTROL S OUT connector on this display to the CONTROL S IN connector of the other device, and connect the CONTROL S IN connector on this display to the CONTROL S OUT connector of the other device.

2 REMOTE (RS-232C) connector (D-sub 9-pin)

This connector allows remote control of the display using the RS-232C protocol. For details, contact your authorized Sony dealers.

3 INPUT 1 (DIGITAL RGB IN) connectors

DVI : Connects to the digital RGB signal output of video devices. Supports HDCP copy protection.

AUDIO (Stereo minijack) : Inputs an audio signal. Connects to the audio output of video devices.

4 INPUT 2 (ANALOG RGB/COMPONENT IN) connectors

RGB/COMPONENT (D-sub 15-pin) : Connects to the analog RGB signal or component (YUV) signal output of a piece of video equipment.

AUDIO (Stereo minijack) : Inputs an audio signal. Connects to the audio output of a piece of video equipment.

5 AUDIO OUT L/R (RCA pin jack)

Outputs an audio of the signal currently indicated on the screen.

Outputs an audio signal corresponding to the Active Picture while in the P&P or PinP mode.

6 VIDEO connectors (BKM-FW10)

S VIDEO IN (Mini DIN 4-pin) : Connects to the Y/C signal output of a piece of video equipment.

S VIDEO OUT (Mini DIN 4-pin) : Connects to the Y/C signal input of a piece of video equipment.

VIDEO IN (BNC) : Connects to the video signal output of a piece of video equipment.

VIDEO OUT (BNC) : Connects to the video signal input of a piece of video equipment.

AUDIO IN L/R (RCA pin jack) : Inputs an audio signal. Connects to the audio output of a piece of video equipment.

7 OPTION1 (VIDEO/COM) slot

This slot supports video signals and the communication function. The slot accepts optional adaptors for video signal input/output (such as BKM-FW10, BKM-FW11, BKM-FW12) as well as optional adaptors with network management capability (such as BKM-FW32, BKM-FW50). These adaptors allow you to control the display unit via the network.

8 OPTION2 (VIDEO) slot

This slot supports video signals. A blank panel is attached to this slot when shipped from the factory. The slot accepts optional adaptors for video signal input/output. For optional adaptors with network management capability, use the OPTION1 slot **7**.

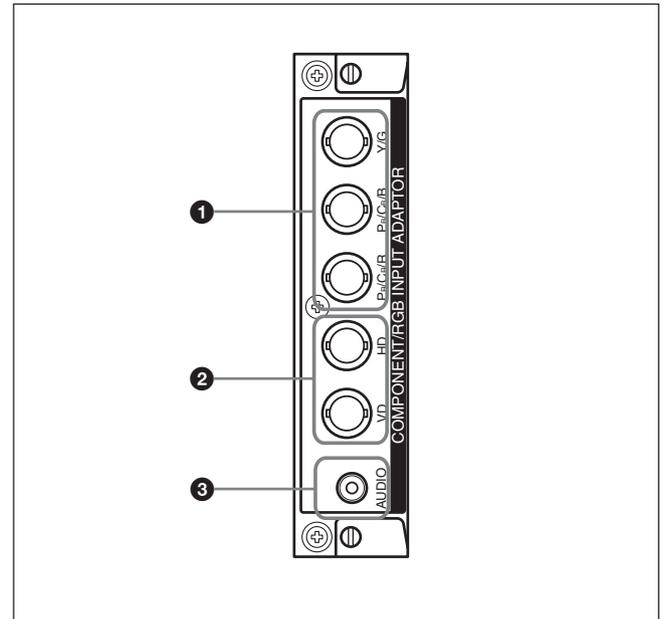
Optional adaptors (Not supplied)

The connectors marked with **7** and **8** on the connector panel are slot-in type and can be fitted with any of the optional adaptors described below. *For details on installation, consult your Sony dealers.*

Video/S-Video Input/Output Adaptor BKM-FW10

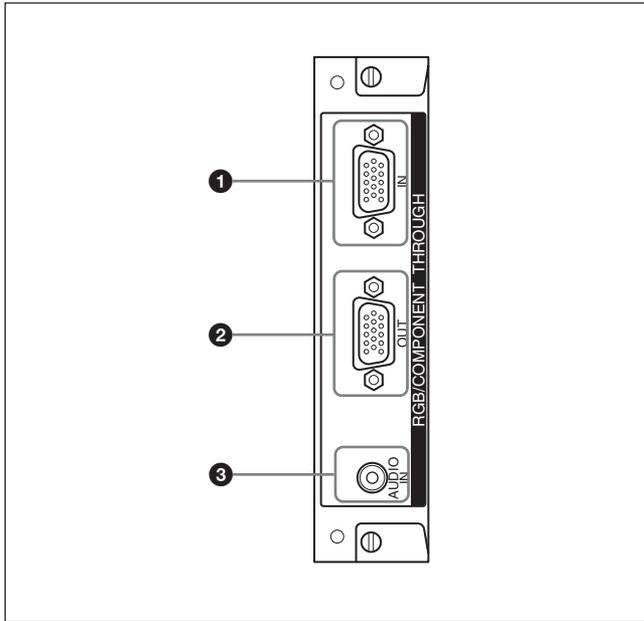
Same as pre-installed **6**.

COMPONENT/RGB Input Adaptor BKM-FW11



- 1 Y/G P_B/C_B/B P_R/C_R/R IN (BNC) :** Connects to the analog RGB signal or component (YUV) signal output of a piece of video equipment or a computer.
- 2 HD VD IN (BNC) :** Connects to the synchronization signal output of a computer.
- 3 AUDIO (Stereo minijack) :** Inputs an audio signal. Connects to the audio output of a piece of video equipment or a computer.

RGB/COMPONENT ACTIVE THROUGH Adaptor BKM-FW12



1 RGB/COMPONENT IN (D-sub 15-pin) :
Connects to the component signal output or analog RGB signal output of a piece of video equipment or a computer.
For details on inputting a component signal to the connector, see “Pin assignment” on page 49 (GB).

2 RGB/COMPONENT OUT (D-sub 15-pin) :
Connects to the component signal input or analog RGB signal input of a piece of video equipment or a computer.

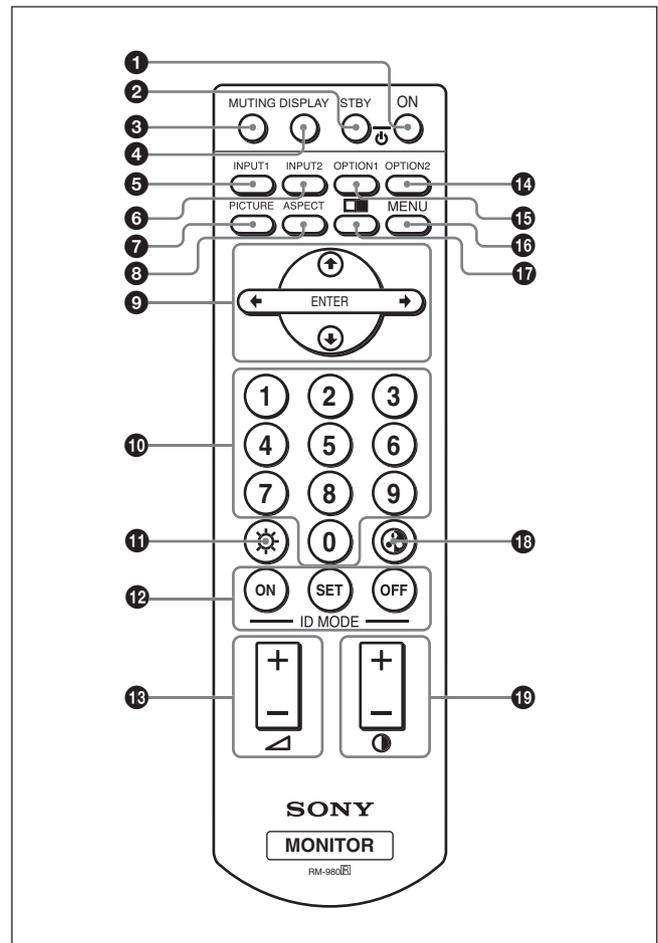
3 AUDIO IN (Stereo minijack) :
Inputs audio signal. Connects to the audio signal output of a piece of video equipment or a computer.

Note

When the unit is not connected to an AC power or is in the standby mode, no signal is output from the RGB/COMPONENT OUT.

Other optional adaptors of the BKM-FW series are to be connected to analog RGB signal outputs. For details, see the documentation of the respective adaptor.

Remote Commander RM-980



1 POWER ON switch
Press to power on the display.

2 STANDBY button
Press to change the display to the standby mode.

3 MUTING button
Press to mute the sound. Press again to restore sound.

4 DISPLAY button
Press to display information about the input signal type and picture mode on the screen. Press the button again to hide it. Even without pressing the button, the information will disappear automatically after a while.

5 INPUT1 button
Press to select the signal input to the INPUT1 connectors.

6 INPUT2 button
Press to select the signal input to the INPUT2 connectors. Each press of the button toggles between RGB and COMPONENT. When the “Fix” input setting has been selected, the selection is fixed to RGB or COMPONENT.

For details, see “Input Setting” on page 19 (GB).

7 PICTURE button

Selects Picture mode. Each press toggles between Vivid, Standard, and User 1 to 3.

8 ASPECT button

Press to change the aspect ratio.

9 ↑/↓/←/→/ENTER buttons

The ↑/↓/←/→ buttons move the menu cursor (yellow) and set values, etc. Pressing the ENTER button sets the selected menu or setting items.

10 Number buttons

Press to enter index numbers.

11 Brightness button

Adjusts the brightness when Picture Mode is set to any of “User1” to “User3.” Press this button, then adjust the brightness with ↑/↓ or ←/→ buttons **9**.

12 ID MODE (ON/SET/OFF) buttons

Press ON to show an index number on the screen. Enter the index number of the display you want to operate with Number buttons **10**, then press SET. Press OFF to return to the normal mode.

For details on the index numbers, see “Operating a Specific Display With the Remote Commander” on page 44 (GB).

13 Volume +/- button

Press to adjust the volume.

14 OPTION2 button

When an optional adaptor board is installed, selects a signal to be input from the device connected to the optional adaptor. Depending on which optional adaptor is installed, each press of the button switches the input between RGB and COMPONENT or between VIDEO and S-VIDEO. However, when the “Fix” input setting has been selected, the input is fixed to one setting.

For details, see “Input Setting” on page 19 (GB).

15 OPTION1 button

When an optional adaptor is installed, selects a signal to be input from the device connected to the optional adaptor. Depending on which optional adaptor is installed, each press of the button switches the input between RGB and COMPONENT or between VIDEO and S-VIDEO. However, when the “Fix” input setting has been selected, the input is fixed to one setting.

For details, see “Input Setting” on page 19 (GB).

16 MENU button

Press to show menus. Press again to hide them.

17  button

Selects the PICTURE AND PICTURE (PAP) mode. Each press toggles between PAP off, P&P, and PinP.

18 Chroma button

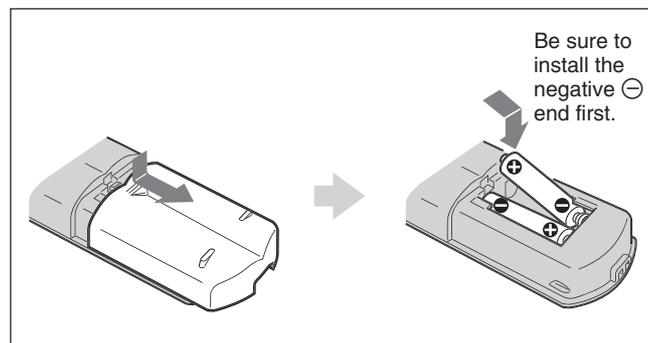
Adjusts the chroma when the picture mode is set to any of “User1” to “User3.” Press this button and adjust the chroma with the ↑/↓ or ←/→ buttons **9**.

19 Contrast +/- button

Adjusts the contrast when Picture Mode is set to any of “User1” to “User3.”

Installing batteries

Insert two size AAA (R03) batteries in correct polarity.



- In normal operation, batteries will last up to half a year. If the Remote Commander does not operate properly, the batteries might be exhausted sooner. Replace them with new ones.
- To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the Remote Commander for a fairly long time.

When the Remote Commander does not work

Check that the POWER/STANDBY indicator lights up and the Control Mode in the Remote menu is not set to “Display Unit Only.” The Remote Commander operates the display only when both of the two conditions below are met.

- The display is turned on, or it is in the standby mode.
- The Control Mode in the Remote menu is set to “Display + Remote” or “Remote Only.”

For details on the Control Mode, see “Control Mode” on page 19 (GB).

For Customers in Taiwan only

廢電池請回收



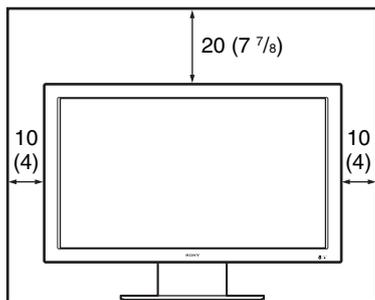
Caution

Provide an ample amount of space around the display

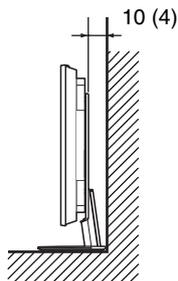
- To prevent internal heat buildup from sealing off the display, make sure to ensure proper ventilation by leaving open the minimum amount of space around the display, as illustrated below.
- The ambient temperature must be 0 °C to +35 °C (32 °F to 95 °F).
- When installing the display horizontally, use the display stand SU-50FW (not supplied) as a stand.
- Regarding the installation of hardware such as brackets, screws, or bolts, we cannot specify the products. Actual installation is up to the authorized local dealers. Consult with qualified Sony personnel for installation.
- While the unit is on, a certain amount of heat builds up inside. This can cause burns. Avoid touching the top or rear of the unit when it is powered on or just after it has entered standby mode.

When using the stand (not supplied)

Front



Side



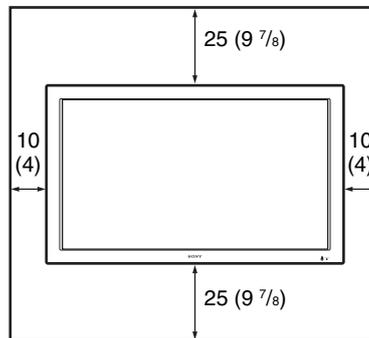
Units: cm (inches)

Note

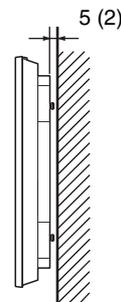
When moving or installing the display when it is attached to the stand (not supplied), do so with at least 3 people.

When mounting the display horizontally

Front



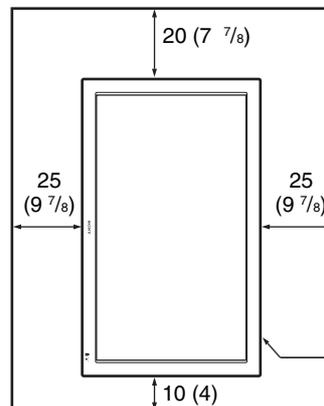
Side



Units: cm (inches)

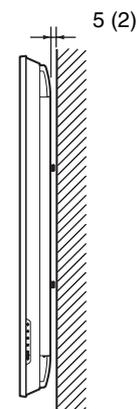
When mounting the display vertically

Front



Make sure that the POWER switch is at the lower position.

Side



Units: cm (inches)

Note

When mounting the display vertically, you cannot use the speakers SS-SP50FW (not supplied).

Notes on Image Retention

If the **1** – **5** images (below) are displayed for an extended period of time, image retention (afterimage) in areas of the screen may result due to the characteristics of the Plasma Display Panel. It is possible to reduce image retention by following steps **A** – **D**.

Situations which can result in burn-in and picture retention

- 1** Black bars at the top and bottom that appear with wide video source (Letter box picture)
- 2** Black bars to the left and right that appear with 4:3 video source (conventional TV broadcast)
- 3** Video game sources
- 4** DVD on-screen menu displays
- 5** On-screen menus, channel numbers, etc., of connected equipment such as DSS, Cable box, video decks, etc.

Precautions to avoid/reduce burn-in and picture retention

- A** Use the SCREEN SAVER function.
- B** Avoid displaying channel numbers, on-screen menus etc., of connected equipment such as DSS, Cable box, video decks, etc. To erase channel numbers, on-screen menus, refer to the user manual of connected equipment.
- C** Reduce brightness of the picture and/or display video source in Wide Zoom or Full Mode.
- D** “Pic. Inversion” and “All White” of “SCREEN SAVER” are effective in burn-in or after image reduction. However, the burn-in or after image cannot be completely removed once they occur.

Notes on “Pic. Inversion (Picture Inversion)” of “SCREEN SAVER”

If the displayed image appears as an image like a film negative, “Pic. Inversion (Picture Inversion)” of “SCREEN SAVER” may be set to “Auto” or “On.” To return to a normal image, select “Off” or reset the specified time in “Auto.”

Pic. Inversion (Picture Inversion) inverts the tint of the picture (Example: white to black, black to white) and corrects the image retention (afterimage) with displayed image on. The image looks like a film negative during picture inversion. This is not a malfunction.

Connections

Before you start

- First make sure that the power to each piece of equipment is turned off.
- Use connecting cables suitable for the equipment to be connected.
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and other noise.
- To disconnect the cable, pull it out by grasping the plug. Never pull the cable itself.
- Refer to the instruction manual of the equipment to be connected.
- Insert the plug securely into the AC IN socket.
- Use one of the two AC plug holders (supplied) that will securely hold the AC plug.

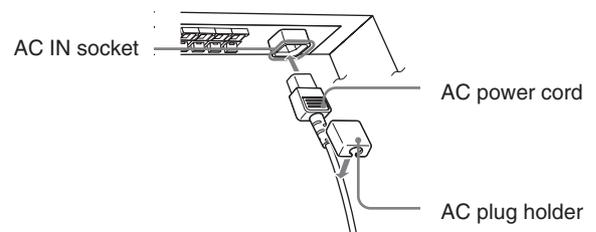
Connecting the Speakers

You can enjoy viewing with a greater sense of presence by connecting speakers SS-SP50FW (not supplied). Please be sure to connect the speakers correctly. For more details on connecting the speakers, see the operating manual that came with the speakers.

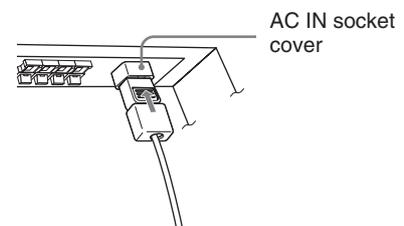
For details on how to route the speaker cords, refer to “Using the cable holders” on page 15 (GB).

Connecting the AC Power Cord

- 1** Plug the AC power cord into the AC IN socket. Then, attach the AC plug holder (supplied) to the AC power cord.



- 2** Slide the AC plug holder over the cord until it connects to the AC IN socket cover.

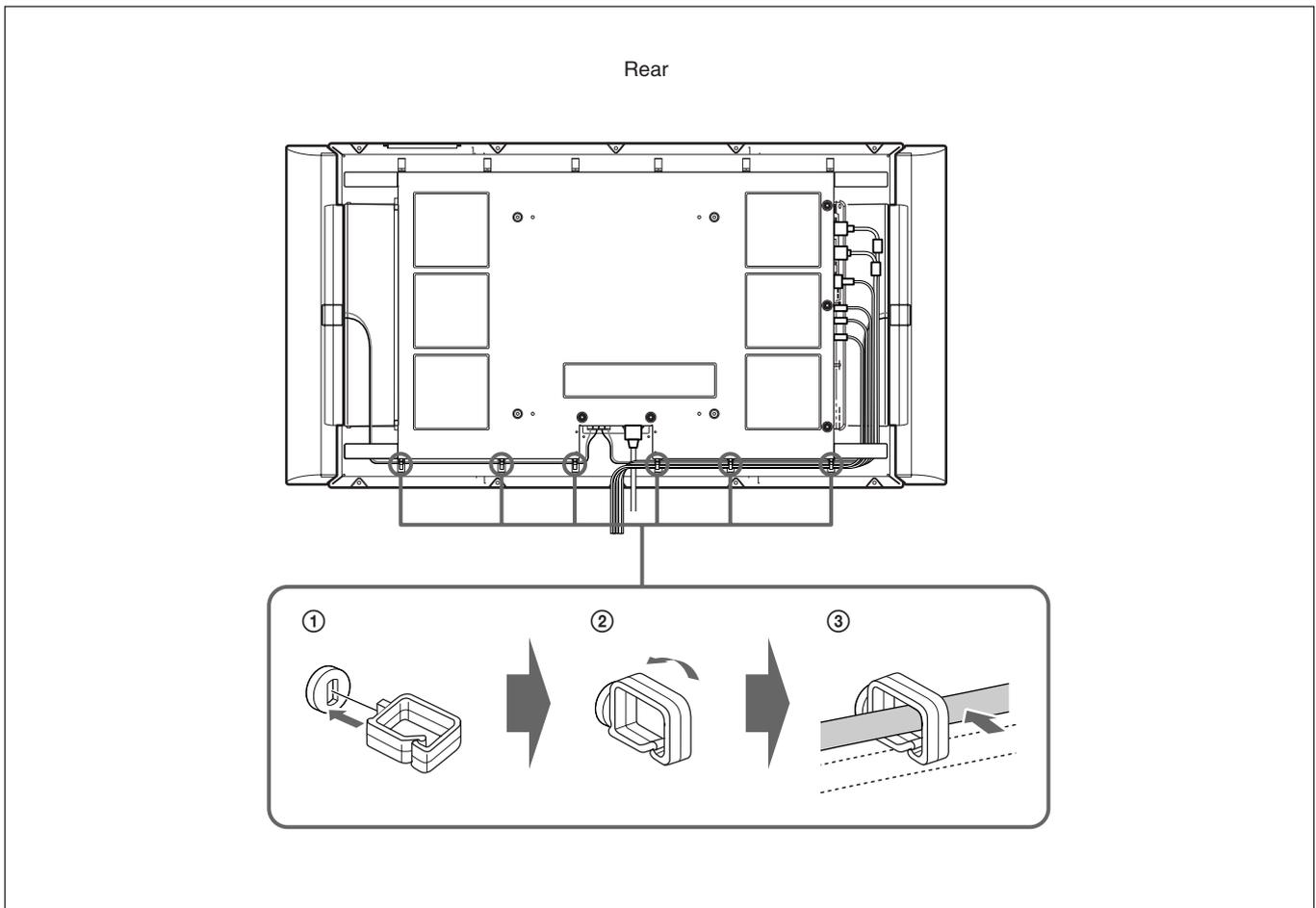


To remove the AC power cord

After squeezing the AC plug holder and freeing it, grasp the plug and pull out the AC power cord.

Cable management**Using the cable holders**

You can neatly bundle the cables with the cable holders (×6) provided. Attach the cable holders as shown in the illustration below.

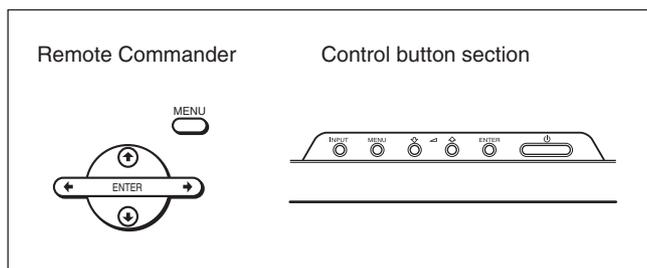


Using On-screen Menus

Operating Through Menus

Menu operating buttons

Use the buttons on the display unit or the Remote Commander for menu operations.



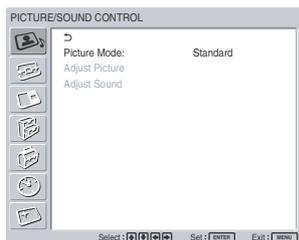
Operation of the unit is explained in these operating instructions for the case of operation using the Remote Commander. The \uparrow/\downarrow and ENTER buttons on the Remote Commander have the same functions as the \uparrow/\downarrow and ENTER buttons on the display.

Note

Operation may differ in some cases since there is no \leftarrow/\rightarrow button on the display.

Configuration of the menu

- 1 Press MENU.
The main menu appears on the screen.



- 2 Press \uparrow/\downarrow to move the cursor (yellow) to the main menu items you want to select and press ENTER.
The cursor moves to the next menu.
- 3 Press \uparrow/\downarrow to move the cursor (yellow) to the item you want to select and press ENTER.
The menu for the selected item appears.
Select a different item by repeating this procedure.

- 4 Press \uparrow/\downarrow to adjust or select the setting and press ENTER to set it.
The setting is registered and the menu returns to the previous menu.

To complete the configuration and return to the normal screen, press MENU.

To return to the previous menu level, press \uparrow/\downarrow to move the cursor to \rightarrow and press ENTER or \leftarrow .

To Switch the On-screen Language

You can select the desired on-screen language for menus and messages from among six languages. "ENGLISH" is set as the factory default language. For details on switching the on-screen language, see "Selecting the On-screen Language" on page 36 (GB).

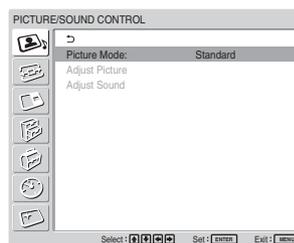
Menu Guide

Note

Items that cannot be set or adjusted (depending on the setting or the type of signal input) show in dark gray.

PICTURE/SOUND CONTROL menu

Adjusts the quality of sound and picture.



Picture Mode

Sets the image quality suitable for the type of picture or the brightness of the location where the unit is installed.

For details, see "Selecting Image Quality" on page 25 (GB).

Adjust Picture

You can make fine adjustment of the picture. Set Picture Mode to any of "User1" to "User3" first.

Note

You cannot adjust the following items when Picture Mode is set to "Vivid" or "Standard."
For details, see "Adjusting the Picture" on page 25 (GB).

Adjust Sound

You can make fine adjustment of the sound.
Set Picture Mode to any of “User1” to “User3” first.

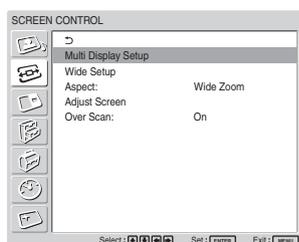
Note

You cannot adjust the following items when Picture Mode is set to “Vivid” or “Standard.”

For details, see “Adjusting the Sound Quality” on page 35 (GB).

SCREEN CONTROL menu

You can resize or adjust the position of a picture.



Multi Display Setup

You can make settings for connecting multiple display units and forming a video wall in a 2 × 2, 3 × 3 or 4 × 4 arrangement.

For details, see “Setting up the Multi Display” on page 34 (GB).

Wide Setup

Sets the Auto Wide function. The Auto Wide function is a function which chooses from among ordinary television broadcasts, or wide screen images, all having different proportions for horizontal and vertical display, and automatically expands the picture to a wide screen image with a 16:9 aspect ratio, enabling the most appropriate display of different types of images.

For details, see “Setting Auto Wide” on page 28 (GB).

Aspect

Switches the wide screen display to match the size and type of the picture.

For details, see “Setting the Aspect” on page 29 (GB).

Adjust Screen

This menu is used for resizing or repositioning the picture. You can also adjust the number of picture pixels using this menu.

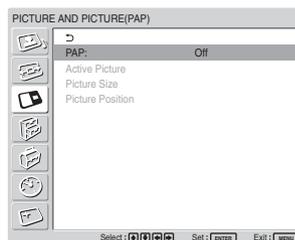
For details, see “Resizing and Positioning the Picture” on page 30 (GB).

Over Scan

When RGB mode (see page 18 (GB)) is set to “DTV”, this option specifies whether to display images with overscan or underscan. Set this option to “On” for overscan image display, and set it to “Off” for underscan image display.

PICTURE AND PICTURE (PAP) menu

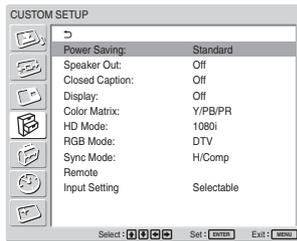
You can show two pictures from different signal sources, such as a computer and a video, side by side.



For details, see “Viewing two pictures at the same time” on page 32 (GB).

CUSTOM SETUP menu

You can reduce power consumption or set various kinds of modes.



Power Saving

Reduces power consumption while showing pictures.

Standard: No energy saving

Reduce: Save energy

When you select “Reduce,” the brightness of the picture is reduced so that you can enjoy viewing pictures while reducing power consumption.

Notes

- “Power Saving: Reduce” will be resumed when you power on the unit again.
- Even when Power Saving is set to “Reduce”, you can still adjust the quality of the picture. However, note that you may lose the energy saving effects if you increase Contrast or Brightness.

Speaker Out

Set it to On to cause sound to be emitted from the speakers SS-SP50FW (not supplied.)

Closed Caption

Displays closed captions.

This item is valid only for NTSC signals.

Off: The caption is not displayed.

CC1-4: Displays the caption superimposed on the picture.

Display

Select On to display the input signal information and Picture Mode for about five seconds on the screen when you turn on the unit or switch the input signal.

Color Matrix

Sets the Color Matrix to show pictures in natural color

tones when a component signal is input.

For details, see “Adjusting Color Matrix” on page 36 (GB).

HD Mode

Selects a mode according to an HD analog component signal input to the display unit.

1080i: When a 1080i signal is input

1035i: When a 1035i signal is input

RGB Mode

Sets the mode when a device that outputs RGB signals is connected to the display unit.

DTV: When connected to an RGB signal digital tuner, etc.

PC: When connected to a PC.

Sync Mode

Sets the mode according to the signal input at pin 13 of the RGB/COMPONENT connector. Signals can be set only to 575/50I or 480/60I.

H/Comp: When a horizontal signal or a composite synchronous signal* is input

Video: When a video signal is input

*Depending on the level of the composite synchronous signal, the image may not be displayed correctly. In that case, change the Sync Mode setting.

Input signal and Synchronous mode settings

PIN	Signal input over the D-sub	Synchronous mode setting
13	480/60I, 575/50I Composite Video	Video signal
	Composite Sync	Synchronizing signal
13/14	H Sync/V Sync	
2	Sync On Green	

See “Pin assignment” on page 49 (GB) for more information on the pin assignments of RGB/COMPONENT connector.

Notes

- There are some inputs for which only synchronizing signals can be selected. In this case, an image will not be displayed even if a video signal is input to the 13 pin connector. Input horizontal/vertical synchronization signals through the 13 or 14 pin connectors, or input Sync On Green signals through the RGB connector.

- With Sync On Green, if the unit is not set to accept synchronizing signals, the image will not be displayed.
- Signals of the synchronous mode can be supported only with INPUT2.
- Sync Mode settings cannot be carried out for the input through the option boards.
- This unit does not support the three value sync format of composite sync and 576/60P.
- When you select the video signal for the synchronous mode setting, you cannot use the PICTURE AND PICTURE function.

Remote

This menu is used for remote control settings.

Index Number

Sets the index number of the display.

Note

When you set the index number, use the buttons on the display unit. The index number cannot be set with the Remote Commander.

For details on the Index Number, see “Operating a Specific Display With the Remote Commander” on page 44 (GB).

Control Mode

Selects the function of the Remote Commander.

Display + Remote: Activates a remote commander supplied with the display.

Display Unit Only: Disables the remote control function. You can only make settings for the display using the control buttons on the display unit.

Remote Only: Disables the controls on the display unit when you want to control it using the Remote Commander only. You can only make settings for the display using the Remote Commander.

Note

When operating this item, the modes you can select differ depending on the key you are using.

When using ENTER on the Remote Commander for setting, you can select only “Display + Remote” or “Remote Only.”

When using ENTER on the display unit for setting, you can select only “Display + Remote” or “Display Unit Only.”

Input Setting

This menu is used to determine whether the input selector buttons on the remote control (INPUT2, OPTION1, OPTION2) act as toggles (such as for example switching INPUT2 between RGB and COMPONENT) or as fixed selectors.

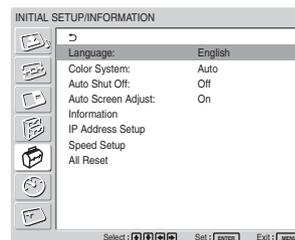
Selectable: Each input selector button on the remote control (INPUT2, OPTION1, OPTION2) toggles between two input types with each press (such as INPUT2: RGB → COMPONENT → RGB → COMPONENT...).

Fix: The currently selected input (as shown on the display) is fixed to the current setting. (For example, when RGB input is selected, the current input will be fixed to RGB.)

This setting also applies to the operation when the CONTROL S connector is used.

INITIAL SETUP/INFORMATION menu

You can select the on-screen language or the input signal, or display various information such as the Operation Time.



Language

Selects the on-screen language (Japanese, English, German, French, Spanish, or Italian).

For details, see “Selecting the On-screen Language” on page 36 (GB).

Color System

Selects the Color System of video signals.

Auto: to set the Color System automatically.

NTSC: to display NTSC signals

NTSC4.43: to display NTSC4.43 signals

PAL: to display PAL signals

SECAM: to display SECAM signals

PAL-M: to display PAL-M signals

PAL-N: to display PAL-N signals

PAL60: to display PAL60 signals

Auto Shut Off

When you set this item to “On,” the display unit automatically enters the standby mode when a signal is not input to the COMPONENT or DVI input connectors for more than about five minutes. The display unit automatically enters the power saving mode when a signal is not input to the DVI or RGB input connectors for more than about thirty seconds. While in the standby mode, press the **POWER** switch on the display unit or the **POWER ON** button on the Remote Commander to switch the display unit on. While in the power saving mode, the display unit is automatically turned on when a signal is input.

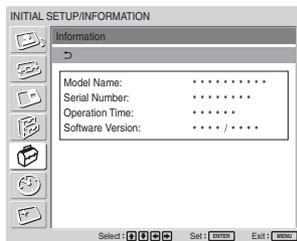
Auto Screen Adjust

When “Auto Screen Adjust” is set to On, it saves the screen-settings for size and positioning for each input signal on the unit and automatically detects the last setting in memory each time input signals are switched.

When “Auto Screen Adjust” is set to Off, this auto adjustment is set disabled. Even when input signals are switched, the original factory settings operate.

Information

This menu is used for displaying various information, including information on the internal status of the display unit.



Model Name

Indicates the model name.

Serial Number

Indicates the serial number.

Operation Time

Indicates the total number of hours of operation.

Note

Time spent in standby mode is not counted as part of the Operation Time.

Software Version

Indicates the system software version.

IP Address Setup

Sets an IP address for communication between the display unit and an optional adaptor with network management capability (such as BKM-FW32, BKM-FW50).

DHCP: Automatically obtain an IP address.

Manual: Manually configure an IP address.

For details, see “Setting an IP Address and communication speed” on page 42 (GB).

Speed Setup

Sets the communication speed between the display unit and an optional adaptor with network management capability (such as BKM-FW32, BKM-FW50).

For details, see “Setting an IP Address and communication speed” on page 42 (GB).

Note

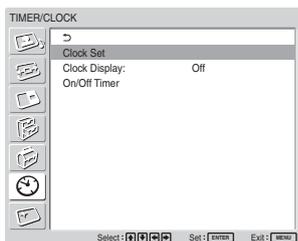
These setting items appear on the menu only when an optional adaptor with network management capability is installed in the OPTION1 slot.

All Reset

This menu is used to reset all adjustment and setting values to the factory default condition.

TIMER/CLOCK menu

You can set the timer, adjust time, display the built-in clock, or make the unit power on/off at a predetermined time.



Note

The time and the day are not preset in the factory setting.

Clock Set

Sets the time and the day.

For details, see “Adjusting the time and the day” on page 37 (GB).

Clock Display

Displays the currently set time on the screen when set to On.

For details, see “Displaying the time” on page 37 (GB).

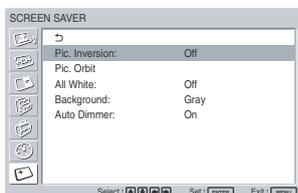
On/Off Timer

Sets the time at which the power is automatically turned on or off.

For details, see “On/Off Timer Function” on page 38 (GB).

SCREEN SAVER menu

Corrects or reduces damage from ghosting or burn-in that may result from the same image being displayed on the screen for long periods of time.



Pic. Inversion

Inverts the image hue.

Pic. Orbit

Changes the position of a picture after a predetermined amount of time.

All White

Turns the entire screen white to equalize the irregularities caused by burn-in.

Background

Changes the brightness of background of a picture (aspect ratio 4:3).

Auto Dimmer

When a still image is displayed for more than five minutes, gradually turns down its brightness and helps to prevent image retention.

For details on each mode, see “SCREEN SAVER Function” on page 39 (GB).

Watching the Picture

Before you start

- Power on the display.
- Power on the connected equipment and play a video source.
- To display the input signal information and Picture Mode on the screen when turning on the power or switching the input signal, set “Display” in the Custom Setup menu to On.
- To select the language of the menus, see “Selecting the On-screen Language” on page 36 (GB).

Switching the Input Signal

Input1 DVI: Selects the signal (digital RGB) input to the INPUT1 connectors.

Input2 RGB: Selects the signal (analog RGB) input to the INPUT2 connectors.

Input2 Component: Selects the signal (component) input to the INPUT2 connectors.

Option1/2 Video: Selects the signal (video signal) input from the equipment connected to the connectors of the OPTION1 or OPTION2 slot.

Option1/2 S Video: Selects the signal (S video signal) input from the equipment connected to the connectors of the OPTION1 or OPTION2 slot.

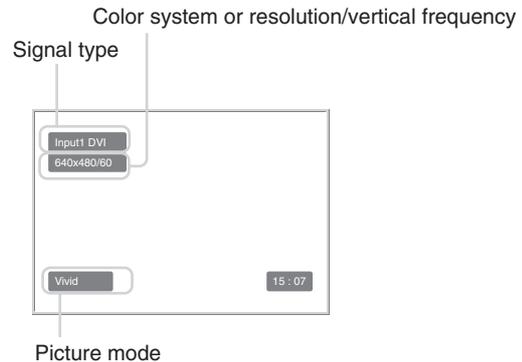
Option1/2 RGB: Selects the signal (analog RGB signal) input from the equipment connected to the connectors of the OPTION1 or OPTION2 slot.

Option1/2 Component: Selects the signal (component signal) input from the equipment connected to the connectors of the OPTION1 or OPTION2 slot.

Press INPUT1, INPUT2, OPTION1 or OPTION2 button on the Remote Commander to switch the input signal.

When multiple formats of signals can be input to the selected input connector, the indication changes every time you press the corresponding button.

For example, every time you press the INPUT2 button, the indication switches to “Input2 RGB” or “Input2 Component” alternately. The selected input signal appears on the screen.



You can switch the input signal using the INPUT button on the display unit.

Notes

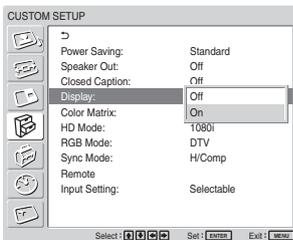
- We recommend input source video equipment equipped with a TBC (time base corrector). If the display receives a signal without TBC, the picture may disappear due to disturbance of the sync signal.
- If signals of the same format are input from multiple systems, the Picture Quality setting will default to the most recently set value (Only when the signal formats are identical).
- Even if the selected input can handle different formats, only one format will be displayed when the Input Setting is “Fix”.

For details, see “Input Setting” on page 19 (GB).

Input Signal, Picture Mode and Display Status Information

Input signal and Picture Mode information appear on the screen for about five seconds when the power is turned on or when the input signal is switched. To disable this function, follow the steps below.

- 1** Press MENU.
The main menu appears on the screen.
- 2** Press **↑/↓** to move the cursor (yellow) to “CUSTOM SETUP” and press ENTER.
The CUSTOM SETUP menu appears on the screen.
- 3** Press **↑/↓** to move the cursor (yellow) to “Display” and press ENTER.
The following menu appears on the screen.



- 4** Press **↑/↓** to set “Display” to “Off,” then press ENTER.

To display the information

Set “Display” to “On” in step **2** above, then press ENTER. The factory default setting is “On.”

Note

You can display the input signal information and the time anytime by pressing the DISPLAY button on the Remote Commander, regardless of the above setting.

Preset input signals			
	Signal name	Color system or horizontal/vertical frequency	
Computer signals			
1	VGA ^{a)} -1 (VGA 350)	31.5 kHz	70 Hz
2	640×480@60 Hz	31.5 kHz	60 Hz
3	Mac ^{b)} 13"	35.0 kHz	67 Hz
4	VGA (VGA TEXT)	31.5 kHz	70 Hz
5	800×600@60 Hz (VESA ^{c)} STD)	37.9 kHz	60 Hz
6	Mac 16"	49.7 kHz	75 Hz
7	1024×768@60 Hz (VESA STD)	48.4 kHz	60 Hz
8	1024×768@75 Hz (VESA STD)	60.0 kHz	75 Hz
9	1024×768@85 Hz (VESA STD)	68.7 kHz	85 Hz
10	1152×864@75 Hz (VESA STD)	67.5 kHz	75 Hz
11	Mac 21"	68.7 kHz	75 Hz
12	1280×960@60 Hz (VESA STD)	60.0 kHz	60 Hz
13	1280×1024@60 Hz (VESA STD)	64.0 kHz	60 Hz
14	1600×1200@60 Hz (VESA STD)*	75.0 kHz	60 Hz
15	848×480@60 Hz (CVT ^{d)})	29.8 kHz	60 Hz
16	848×480@75Hz (CVT)	37.7 kHz	75 Hz
17	848×480@85Hz (CVT)	43.0 kHz	85 Hz
18	1280×720@60Hz (CVT)	44.8 kHz	60 Hz
19	1280×768@60Hz (CVT)**	47.8 kHz	60 Hz
20	1280×768@75Hz (CVT)	60.3 kHz	75 Hz
21	1280×960@60Hz (CVT)	59.7 kHz	60 Hz
22	1360×768@60Hz (CVT)**	47.7 kHz	60 Hz
23	800×600@60Hz (CVT)	37.4 kHz	60 Hz
24	1024×768@60Hz (CVT)**	47.8 kHz	60 Hz
25	1280×1024@60Hz (CVT)	63.7 kHz	60 Hz
26	1400×1050@60Hz (CVT)*	65.3 kHz	60 Hz
27	1600×1200@60Hz (CVT)*	74.5 kHz	60 Hz
SDTV/HDTV			
1	PAL	PAL	
2	NTSC	NTSC	
3	SECAM	SECAM	
4	NTSC4.43	NTSC4.43	
5	PAL60	PAL60	
6	PAL-M	PAL-M	
7	PAL-N	PAL-N	
8	575/50i	575/50i	
9	480/60i	480/60i	
10	1080/24psf	1080/48i	
11	1080/50i	1080/50i	
12	576/50p	576/50P	
13	480/60p	480/60P	
14	1080/60i	1080/60i	
15	720/60p	720/60P	
16	720/50p	720/50P	

- a) VGA is a registered trademark of International Business Machines Corporation, U.S.A.
- b) Mac (Macintosh) is a registered trademark of Apple Computer, Inc.
- c) VESA is a registered trademark of the Video Electronics Standards Association.
- d) VESA Coordinated Video Timing

Notes

- When inputting an HDTV signal, input the tri-level sync signal to the 2nd pin of RGB/COMPONENT (D-sub 15 pin) on the INPUT2 connector or the BKM-FW12.
- If colors appear too light after inputting a DVD signal to the display unit, adjust the “Chroma” setting in the Adjust Picture menu.
- When the phase is readjusted, the resolution will be reduced.
- The signals from the Macintosh computer will not be guaranteed for recognizing the digital RGB input.
- You cannot input the signal indicated with * to DVI IN.
- The signals indicated with ** cannot automatically be distinguished from one another. Every time you execute “Auto Adjust” of “Adjust Screen” in the “SCREEN CONTROL” menu, one of the settings for those signals will be applied consequently. Select the appropriate setting.

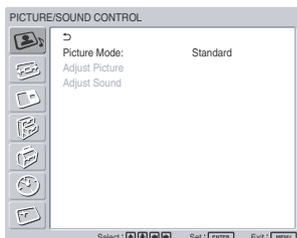
Actual on-screen display of the unit’s status

On-screen display	Significance
640×480 / 60 (e.g.)	The selected input signal is computer RGB.
480 / 60i (e.g.)	The selected input signal is component video.
NTSC (e.g.)	The selected input signal is NTSC.
Not Supported Signal	The input signal is out of the capture range.
No Sync	There is no input signal.
INPUT1 DVI	The signal mode of INPUT1 is set to digital RGB.
INPUT2 RGB	The signal mode of INPUT2 is set to analog RGB.
INPUT2 Component	The signal mode of INPUT2 is set to component video.
Option1/2 Video	The signal mode of OPTION1 or OPTION2 slot is set to composite video.
Option1/2 S Video	The signal mode of OPTION1 or OPTION2 slot is set to S video.
Option1/2 RGB	The signal mode of OPTION1 or OPTION2 slot is set to analog RGB.
Option1/2 Component	The signal mode of OPTION1 or OPTION2 slot is set to component video.

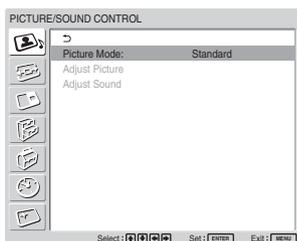
Selecting Image Quality

You can set an image quality suitable for the type of picture or the brightness of the location where the unit is installed.

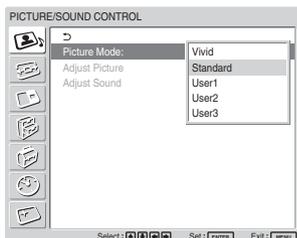
- 1 Press MENU.
The main menu appears on the screen.



- 2 Press \uparrow/\downarrow to move the cursor (yellow) to "PICTURE/SOUND CONTROL" and press ENTER.
The PICTURE/SOUND CONTROL menu appears on the screen.



- 3 Press \uparrow/\downarrow to move the cursor (yellow) to "Picture Mode" and press ENTER.
The following menu appears on the screen.



- 4 Select the Picture Mode with \uparrow/\downarrow .
Vivid: Pictures get intense sharpness with image contour and contrast maximized.
Standard: Pictures look real with moderate contrast and image contour.
User1-3: You can set the image quality to suit your taste using the Adjust Picture menu.
- 5 Press ENTER to return to the PICTURE/SOUND CONTROL menu.

Adjusting the Picture

While watching the picture, you can adjust contrast, brightness, chroma, phase, and so on, to suit your taste. The adjustments can be carried out for each input signal separately. You can also store the adjusted levels in memory.

Set the Picture Mode to any of "User1" to "User3."

Adjusting the Contrast, Brightness, Chroma, and Phase, etc.

Press MENU to show the main menu and adjust "Contrast," "Brightness," "Chroma," "Phase," "Sharpness," "Noise Reduct.," "Dynamic Picture," "Color Temp." or "Gamma Correct." on the Adjust Picture menu.

Contrast

Select "Contrast" with \uparrow/\downarrow and press ENTER.
Adjust the contrast with $\uparrow/\downarrow/\leftarrow/\rightarrow$ within the range of MIN (0) to MAX (100), then press ENTER.

\uparrow/\rightarrow : Increases picture contrast.

\downarrow/\leftarrow : Decreases picture contrast.

Brightness

Select "Brightness" with \uparrow/\downarrow and press ENTER.
Adjust the brightness with $\uparrow/\downarrow/\leftarrow/\rightarrow$ within the range of MIN (0) to MAX (100), then press ENTER.

\uparrow/\rightarrow : Makes the picture brighter.

\downarrow/\leftarrow : Makes the picture darker.

Chroma

Select "Chroma" with \uparrow/\downarrow and press ENTER.
Adjust the chroma with $\uparrow/\downarrow/\leftarrow/\rightarrow$ within the range of MIN (0) to MAX (50), then press ENTER.

\uparrow/\rightarrow : Increases color intensity.

\downarrow/\leftarrow : Decreases color intensity.

Phase

Select “Phase” with **↑/↓** and press ENTER.
Adjust the phase with **↑/↓/←/→** within the range of Left (50) to Right (50), then press ENTER.

- ↑/→**: Makes the overall picture greenish.
- ↓/←**: Makes the overall picture reddish.

Sharpness

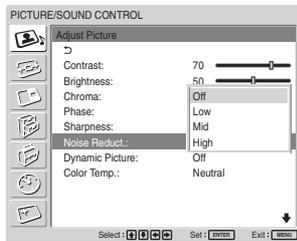
Select “Sharpness” with **↑/↓** and press ENTER.
Adjust the sharpness with **↑/↓/←/→** within the range of MIN (0) to MAX (20), then press ENTER.

- ↑/→**: Increases the sharpness of the image.
- ↓/←**: Decreases the sharpness of the image.

Noise Reduct.

Reduces image graininess and color noise.

- 1 Select “Noise Reduct.” with **↑/↓** and press ENTER.
The following menu appears on the screen.

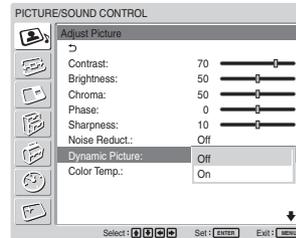


- 2 Select the Noise Reduct. mode with **↑/↓**.
Off: The image signal is displayed directly.
Low: Sets the Noise Reduct. processing to low.
Mid: Sets the Noise Reduct. processing to medium.
High: Sets the Noise Reduct. processing to high.
- 3 Press ENTER to return to the Adjust Picture menu.

Dynamic Picture

Enhances contrast by making white brighter and black darker.

- 1 Select “Dynamic Picture” with **↑/↓** and press ENTER.
The following menu appears on the screen.



- 2 Select the Dynamic Picture mode with **↑/↓**.
Off: Disables the Dynamic Picture function.
On: Enables the Dynamic Picture function.
- 3 Press ENTER to return to the Adjust Picture menu.

Color Temp.

You can set color temperature. Either select one from “Cool,” “Neutral,” or “Warm,” or set values for each gain separately.

- 1 Select “Color Temp.” with **↑/↓** and press ENTER.
- 2 Select the color temperature with **↑/↓** and press ENTER.
Cool: Sets the color temperature to high.
Neutral: Sets the color temperature to neutral.
Warm: Sets the color temperature to low.
Color1 – 3: Sets values for each gain separately.

When you select “Warm,” “Neutral,” or “Cool,” the menu returns to the Adjust Picture menu.

When you select “Color1” to “Color3”

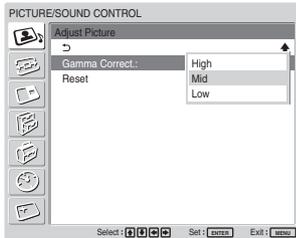
- (1) Press **↑/↓** to move the cursor (yellow) to the gain that you want to adjust and press ENTER.
- (2) Adjust the gain (–15 to +15) with **↑/↓/←/→** and press ENTER.
Press **←** to return to the Color Temp. menu.

Gamma Correct.

Balances the light and dark portions of pictures automatically.

- 1 Select “Gamma Correct.” with \uparrow/\downarrow and press ENTER.

The following menu appears on the screen.



- 2 Select the Gamma Correct. mode with \uparrow/\downarrow .
High: Sets the Gamma Correct. to high.
Mid: Sets the Gamma Correct. to medium.
Low: Sets the Gamma Correct. to low.

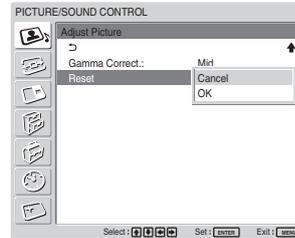
- 3 Press ENTER to return to the Adjust Picture menu.

Notes

- You cannot adjust Chroma and Phase when an RGB signal is input.
- You cannot adjust Phase when a component signal is input.
- You cannot adjust Phase with a PAL, PAL-M, PAL-N, PAL60, or SECAM color system.
- You cannot adjust Phase when a black-and-white signal is input.

Restoring the Adjust Picture Menu Items to Their Original Settings

- 1 In the Adjust Picture menu, press \uparrow/\downarrow to move the cursor (yellow) to “Reset” and press ENTER. The following menu appears on the screen.



- 2 Press \uparrow/\downarrow to move the cursor (yellow) to “OK” and press ENTER. The Adjust Picture menu items are restored to their factory presettings.

Note

The values set for Color1 – 3 of Color Temp. will not be cleared.

To cancel the reset function

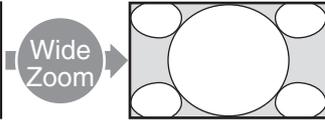
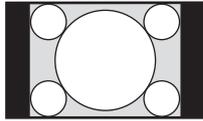
Press MENU before pressing ENTER. Alternatively, select “Cancel” with \uparrow/\downarrow and press ENTER.

Picture Enlargement

You can enlarge pictures to suite your taste. For Wide Mode, the following choices are available.

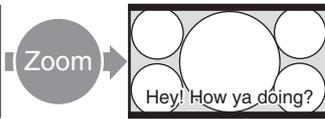
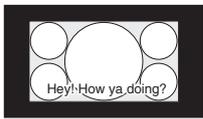
Original Picture (Picture Type)

Enlarged Picture



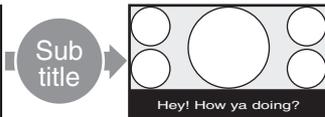
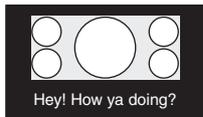
Ordinary pictures with a 4:3 aspect ratio (screen aspect ratio: 4:3).

Images are enlarged naturally to full screen size.



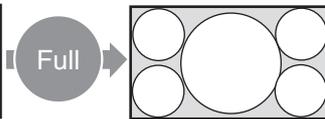
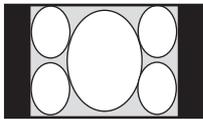
- Images from a video camera or DVD software with aspect ratio information (ID-1 type)

Images are enlarged to full screen size aligned with the right and left sides of the screen. (Black bars may remain at the top and bottom of the screen, depending on the type of picture.)



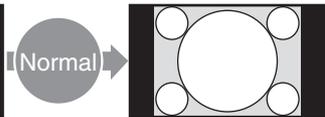
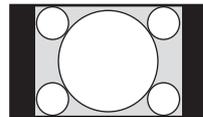
Movies filmed in CinemaVision and so forth that appear long in the horizontal direction of the screen and contain captions outside the picture (aspect ratio: 2.35:1)

The picture is displayed on the screen with the area where captions are displayed while enlarging to full screen size and aligning with the left and right sides of the screen.



Images from a video camera or DVD software containing aspect ratio information (ID-1 type)

The left and right edges of the picture are enlarged to full screen size without changing the top and bottom.



Ordinary pictures with a 4:3 aspect ratio (screen aspect ratio: 4:3).

Pictures are displayed in the original 4:3 aspect ratio without being enlarged.

Setting Auto Wide

The Auto Wide function faithfully reproduces images based on the identification control signal to identify the video signal format or enlarges various types of pictures to the optimum.

You can also enlarge picture with a 4:3 aspect ratio to 16:9.

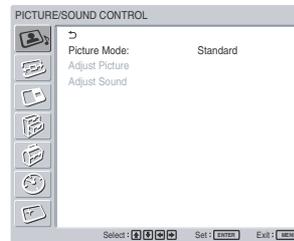
Identification Control Signal

This is a control signal for faithfully reproducing the aspect ratio of the original image. Images that contain this signal consist of the following:

- Images recorded with a television camera with aspect ratio information (ID-1 format).
- Television broadcasts containing a signal for setting the aspect ratio to 4:3.

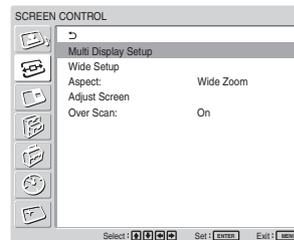
1 Press MENU.

The main menu appears on the screen.



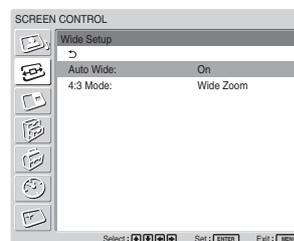
2 Press **↑/↓** to move the cursor (yellow) to "SCREEN CONTROL" and press ENTER.

The SCREEN CONTROL menu appears on the screen.



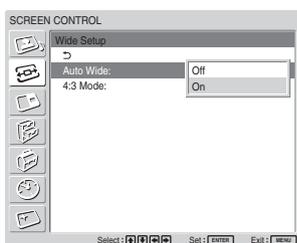
3 Press **↑/↓** to move the cursor (yellow) to "Wide Setup" and press ENTER.

The following menu appears on the screen.



- 4 Press **↑/↓** to move the cursor (yellow) to “Auto Wide” and press **ENTER**.

The following menu appears on the screen.

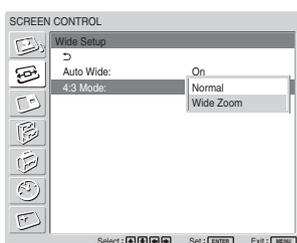


- 5 Select the Auto Wide setting with **↑/↓**.
Off: Images are reproduced as-is.
On: The image is enlarged and displayed in the most appropriate aspect ratio.

- 6 Press **ENTER**.

The screen returns to the screen shown in step 3.

- 7 Select “4:3 Mode” with **↑/↓** and press **ENTER**.
 The following menu appears on the screen.



- 8 Select the 4:3 Mode with **↑/↓**.
Normal: Pictures with a 4:3 aspect ratio are displayed as-is.
Wide Zoom: Pictures with a 4:3 aspect ratio are displayed after being enlarged to an aspect ratio of 16:9.

- 9 Press **ENTER**.

The menu returns to the Wide Setup menu.

Note

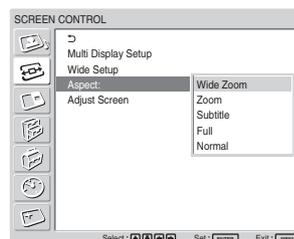
While inputting DVI or RGB signals, you cannot set the Auto Wide because the Auto Wide function does not work.

Setting the Aspect

Pictures can also be enlarged to the desired wide mode regardless of the type of picture.

- 1 In the SCREEN CONTROL menu, press **↑/↓** to move the cursor (yellow) to “Aspect” and press **ENTER**.

The following menu appears on the screen.



- 2 Select the Aspect with **↑/↓**.

Wide Zoom: Enlarges 4:3 pictures full-screen to 16:9 pictures.

Zoom: Enlarges the picture all the way to the left and right edges of the screen. (Black bars may remain on the top and bottom of the screen, depending on the type of picture.)

Subtitle: Enlarges the picture all the way to the left and right edges of the screen and compresses only the area where captions are displayed.

Full: Extends the left and right sides of the picture to cover the entire screen without changing the top and bottom.

Normal: Displays the picture without enlarging it.

- 3 Press **ENTER**.

The menu returns to the SCREEN CONTROL menu.

Notes

- You cannot set the Aspect while using the PICTURE AND PICTURE function or the Multi Display.
- If you set Aspect, the Auto Wide function is disabled. If you want to use the Auto Wide function, reset it to “On.”
- The top or bottom of the picture may be cut off or the captions may not completely be displayed on the screen depending on the type and size of picture.
- Please note that showing enlarged/compressed pictures for commercial purposes or public viewing at hotels or coffee shops can be copyright infringement as defined under the copyright laws.

Resizing and Positioning the Picture

You can shift the position of the picture to fit the screen, or adjust the vertical and horizontal size of the picture separately.

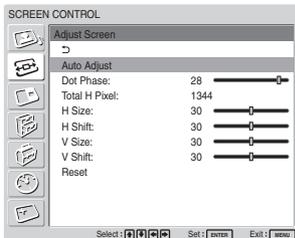
Adjusting the Size, Position, or the Pixels of the Picture

Press MENU to show the main menu and adjust “Dot Phase,” “Total H Pixel,” “H Size,” “H Shift,” “V Size,” or “V Shift” on the Adjust Screen menu.

Adjust screen

If there is too much noise on the edges of characters or vertical lines or if the size or position of the picture is improper, adjust the screen.

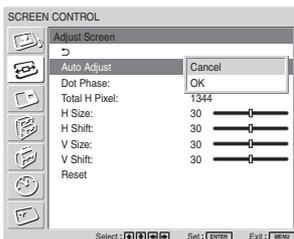
- 1 Select “Adjust Screen” with \uparrow/\downarrow and press ENTER.
The following menu appears on the screen.



- 2 You can adjust the screen either automatically or manually.

Adjusting automatically

- (1) Select “Auto Adjust” with \uparrow/\downarrow and press ENTER.
The following menu appears on the screen.



- (2) Select “OK” with \uparrow/\downarrow and press ENTER.
All the items of “Adjust Screen” menu are adjusted automatically.

Note

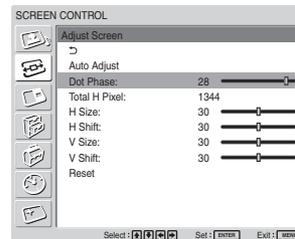
Due to patterns in the image, there may be times when noise continues to occur even after you have used Auto Adjust. In such cases, adjust the dot phase manually.

Those three signals, 1024×768@60, 1280×768@60, 1360×768@60 (all CVT compatible), cannot automatically be distinguished from one another. Every time you execute “Auto Adjust,” the appropriate settings for those three signals will be applied consequently. Repeat “Auto Adjust” until the most appropriate setting is applied for the current input signal.

You can confirm the current setting by the information on the current input signal displayed in the upper left of the screen when you press DISPLAY on the Remote Commander.

Adjusting manually

- (1) Select the item you want to adjust and press ENTER.
The following appears on the screen. (When you select “Dot Phase”)



- (2) Adjust the screen with $\uparrow/\downarrow/\leftarrow/\rightarrow$, then press ENTER.

Dot Phase

Select “Dot Phase” with \uparrow/\downarrow and press ENTER. Adjust the dot phase with $\uparrow/\downarrow/\leftarrow/\rightarrow$ until the characters and vertical lines appear best, then press ENTER.

Note

This item is valid only for an analog computer signal.

Total H Pixel

Select “Total H Pixel” with \uparrow/\downarrow and press ENTER. Adjust the total number of horizontal pixels with $\uparrow/\downarrow/\leftarrow/\rightarrow$ until the characters and vertical lines appear best, then press ENTER.

Note

This item is valid only for an analog computer signal.

H Size

Select “H Size” with \uparrow/\downarrow and press ENTER. Adjust the horizontal size of the picture with $\uparrow/\downarrow/\leftarrow/\rightarrow$ within the range of MIN (0) to MAX (60), then press ENTER.

\uparrow/\rightarrow : Enlarges the image horizontally.

\downarrow/\leftarrow : Compresses the image horizontally.

When you want to reset H Size to the center value, select “Auto Adjust.”

H Shift

Select “H Shift” with \uparrow/\downarrow and press ENTER. Adjust the position of the picture horizontally with $\uparrow/\downarrow/\leftarrow/\rightarrow$ within the range of MIN (0) to MAX (60), then press ENTER.

\uparrow/\rightarrow : Moves the picture to the right.

\downarrow/\leftarrow : Moves the picture to the left.

When you want to reset H Shift to the center value, select “Auto Adjust.”

V Size

Select “V Size” with \uparrow/\downarrow and press ENTER. Adjust the vertical size of the picture with $\uparrow/\downarrow/\leftarrow/\rightarrow$ within the range of MIN (0) to MAX (60), then press ENTER.

\uparrow/\rightarrow : Enlarges the image vertically.

\downarrow/\leftarrow : Compresses the image vertically.

When you want to reset V Size to the center value, select “Auto Adjust.”

V Shift

Select “V Shift” with \uparrow/\downarrow and press ENTER. Adjust the position of the picture vertically with $\uparrow/\downarrow/\leftarrow/\rightarrow$ within the range of MIN (0) to MAX (60), then press ENTER.

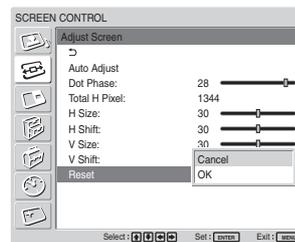
\uparrow/\rightarrow : Moves the picture up.

\downarrow/\leftarrow : Moves the picture down.

When you want to reset V Shift to the center value, select “Auto Adjust.”

Restoring the adjusted Size or Position to Their Original Settings

- 1 In the Adjust screen menu, press \uparrow/\downarrow to move the cursor (yellow) to “Reset” and press ENTER. The following menu appears on the screen.



- 2 Press \uparrow/\downarrow to move the cursor (yellow) to “OK” and press ENTER. The Adjust screen menu items are restored to their factory presettings.

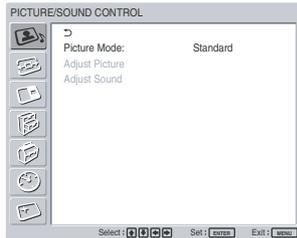
To cancel the reset function

Press MENU before pressing ENTER. Alternatively, select “Cancel” with \uparrow/\downarrow and press ENTER.

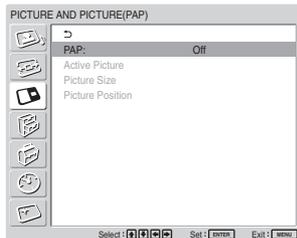
Viewing two pictures at the same time

You can show two pictures from different signal sources, such as a computer and a video, side by side.

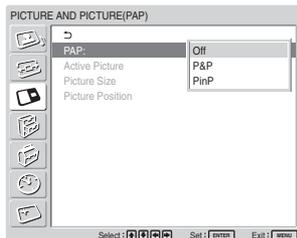
- 1 Press MENU.
The main menu appears on the screen.



- 2 Press \uparrow/\downarrow to move the cursor (yellow) to “PICTURE AND PICTURE (PAP)” and press ENTER.
The PICTURE AND PICTURE (PAP) menu appears on the screen.



- 3 Press \uparrow/\downarrow to move the cursor (yellow) to “PAP” and press ENTER.
The following menu appears on the screen.

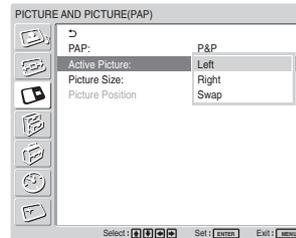


- 4 Select the PAP mode with \uparrow/\downarrow .
Off: Disables PAP function.
P&P: Shows two pictures side by side at the same time.
PinP: Shows an inset picture on the main picture.
- 5 Press ENTER to return to the previous screen.

Activating a picture or swapping the positions of two pictures

When P&P is selected

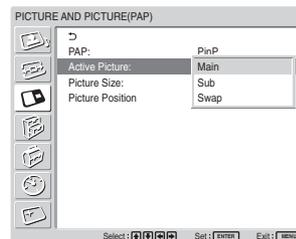
- 1 Press \uparrow/\downarrow to move the cursor (yellow) to “Active Picture” and press ENTER.
The following menu appears on the screen.



- 2 Select the Active Picture mode with \uparrow/\downarrow and press ENTER.
Left: Activates the picture on the left.
Right: Activates the picture on the right.
Swap: Swaps the position of the two pictures.

When PinP is selected

- 1 Select “Active Picture” with \uparrow/\downarrow and press ENTER.
The following appears on the screen.



- 2 Select the Active Picture mode with \uparrow/\downarrow and press ENTER.
The audio corresponding to the currently active picture is output.
Main: Activates the main picture.
Sub: Activates the inset picture.
Swap: Swaps the main and the inset pictures.

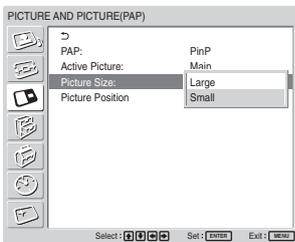
Zooming in on a picture

When P&P is selected

- 1 Select "Picture Size" with \uparrow/\downarrow and press ENTER.
- 2 Keep pressing \leftarrow/\rightarrow to change the size of the picture, then press ENTER.

When PinP is selected

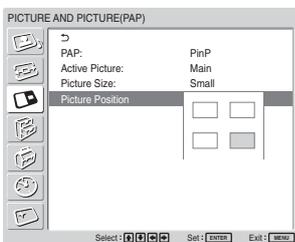
- 1 Select "Picture Size" with \uparrow/\downarrow and press ENTER. The following appears on the screen.



- 2 Press \uparrow/\downarrow to select the size, then press ENTER.
Large: Increases the size of the inset picture.
Small: Decreases the size of the inset picture.

Adjusting the position of the inset picture (For PinP only)

- 1 Select "Picture Position" with \uparrow/\downarrow and press ENTER.



- 2 Adjust the position of the inset picture with $\uparrow/\downarrow/\leftarrow/\rightarrow$, then press ENTER.

Notes

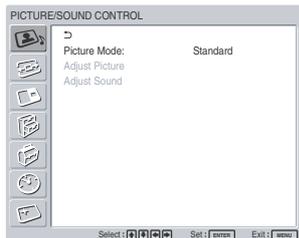
- You can show two pictures only when "Multi Display" is set to "Off."
- You can select any of the following combinations of input signals for the PICTURE AND PICTURE function. However, Option1 and Option2 cannot be combined.

	Digital RGB	Analog RGB	Component	Y/C	Composite
Digital RGB	-	-	Supported	Supported	Supported
Analog RGB	-	-	Supported	Supported	Supported
Component	Supported	Supported	Supported	Supported	Supported
Y/C	Supported	Supported	Supported	-	-
Composite	Supported	Supported	Supported	-	-

Setting up the Multi Display

You can make settings for connecting multiple display units to form a video wall.

- 1 Press MENU.
The main menu appears on the screen.



- 2 Select "SCREEN CONTROL" with \uparrow/\downarrow and press ENTER.
The SCREEN CONTROL menu appears on the screen.



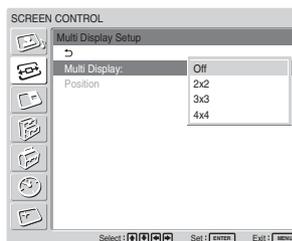
Note

You can enlarge the picture using the Multi Display only when "Aspect" is set to "Full."

- 3 Select "Multi Display Setup" with \uparrow/\downarrow and press ENTER.
The Multi Display Setup menu appears on the screen.

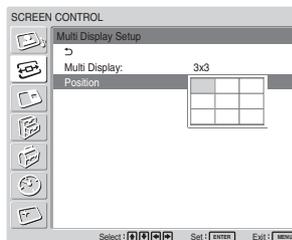


- 4 Select "Multi Display" with \uparrow/\downarrow and press ENTER.
The following menu appears on the screen.

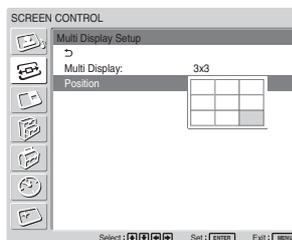


- 5 Select the mode corresponding to the arrangement of the video wall you want to setup with \uparrow/\downarrow .
Off: Uses a single screen.
2 × 2 – 4 × 4: Selects the arrangement to be used to construct the video wall.

- 6 Press ENTER to return to the Multi Display Setup menu and select "Position" with \uparrow/\downarrow .



- 7 Select the position of this particular display unit in the arrangement of the video wall with $\uparrow/\downarrow/\leftarrow/\rightarrow$.



For example, to select the position at the right bottom in a 3 × 3 arrangement.

- 8 Press ENTER to set the position.
The menu returns to the Multi Display Setup menu.

Note

You can set the Multi Display only when the "PICTURE AND PICTURE" function is disabled.

Adjusting the Sound Quality

When a speaker SS-SP50FW (not supplied) is installed, you can adjust sound treble level, bass level, or balance of the speaker (left and right) volume. The surround mode can also be set.

Adjusting the Treble, Bass, and Balance, etc.

Press MENU to show the main menu and adjust “Treble,” “Bass,” “Balance,” or “Surround” from the Adjust Sound menu.

Treble

Select “Treble” with **↑/↓** and press ENTER. Adjust the treble with **↑/↓/←/→** within the range of MIN (-50) to MAX (50), then press ENTER.

↑/→: Increases sound treble.

↓/←: Decreases sound treble.

Bass

Select “Bass” with **↑/↓** and press ENTER. Adjust the bass with **↑/↓/←/→** within the range of MIN (-50) to MAX (50), then press ENTER.

↑/→: Increases sound bass.

↓/←: Decreases sound bass.

Balance

Select “Balance” with **↑/↓** and press ENTER. Adjust the balance with **↑/↓/←/→** within the range of LEFT (50) to RIGHT (50), then press ENTER.

↑/→: Increases the volume on the right side.

↓/←: Increases the volume on the left side.

Surround

Select the Surround mode according to the type of picture.

1 Select “Surround” with **↑/↓** and press ENTER.

2 Select the Surround mode with **↑/↓** and press ENTER.

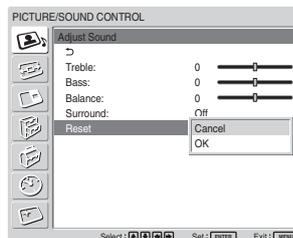
Off: No surround output

Hall: When desiring to give the stereo sound of movies or music programs a greater sense of presence.

Simul.: When desiring to give ordinary monaural programs or news telecasts an enhanced sense of presence using simulated stereo sound.

Restoring the Adjust Sound Menu Items to Their Original Settings

1 In the Adjust Sound menu, press **↑/↓** to move the cursor (yellow) to “Reset” and press ENTER. The following menu appears on the screen.



2 Press **↑/↓** to move the cursor (yellow) to “OK” and press ENTER. The Adjust Sound menu items restore their factory presettings.

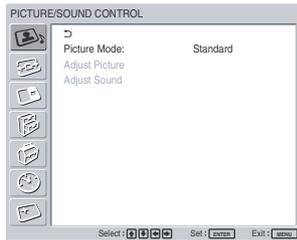
To cancel the reset function

Press MENU before pressing ENTER. Alternatively, select “Cancel” with **↑/↓** and press ENTER.

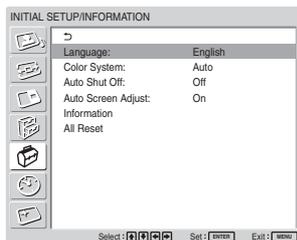
Selecting the On-screen Language

You can select the on-screen language from Japanese, English, German, French, Spanish or Italian.

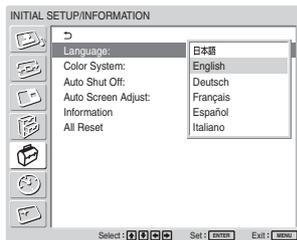
- 1 Press MENU.
The main menu appears on the screen.



- 2 Press **↑/↓** to move the cursor (yellow) to “INITIAL SETUP/INFORMATION” and press ENTER.
The INITIAL SETUP/INFORMATION menu appears on the screen.



- 3 Press **↑/↓** to move the cursor (yellow) to “Language” and press ENTER.
The following menu appears on the screen.



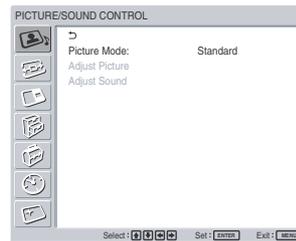
- 4 Press **↑/↓** to move the cursor (yellow) to the language of your choice and press ENTER.
The on-screen language is switched to the one you have selected.

日本語: Japanese
English: English
Deutsch: German
Français: French
Español: Spanish
Italiano: Italian

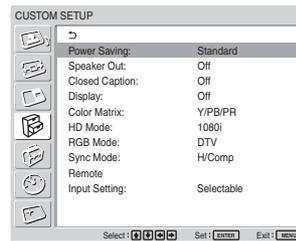
Adjusting Color Matrix

You can set Color Matrix to show pictures in natural colors when a signal with a signal format (480I(525I), 480P(525P), 1080I(1125I), or 720P(750P)) is input to the component input adapter.

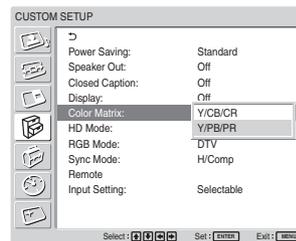
- 1 Press MENU.
The main menu appears on the screen.



- 2 Press **↑/↓** to move the cursor (yellow) to “CUSTOM SETUP” and press ENTER.
The CUSTOM SETUP menu appears on the screen.



- 3 Press **↑/↓** to move the cursor (yellow) to “Color Matrix” and press ENTER.
The following menu appears on the screen.



- 4 Select the color matrix with **↑/↓**.
Y/CB/CR: When the signal format is 480I or 480P.
Y/PB/PR: When signal format is 1080I or 720P.
Refer to the operating instructions of each device for details on the settings.

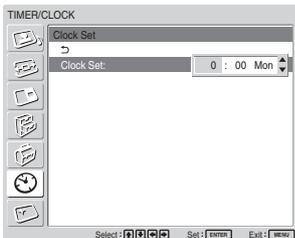
- 5 Press ENTER to return to the previous screen.

Controlling Power On/Off Automatically (Timer Function)

You can set the time to display the current time and set the time when the power automatically turns on/off (On/Off Timer function).

Adjusting the time and the day

- 1 Press MENU.
The main menu appears on the screen.
- 2 Press \uparrow/\downarrow to move the cursor (yellow) to “TIMER/CLOCK” and press ENTER.
The TIMER/CLOCK menu appears on the screen.
- 3 Press \uparrow/\downarrow to move the cursor (yellow) to “Clock Set” and press ENTER.
The following menu appears, and the background color of the time turns to yellow.



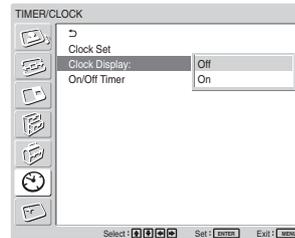
- 4 Adjust the hour with \uparrow/\downarrow and press ENTER.
The setting for the hour is entered and the background of the minute is displayed in yellow.
- 5 Adjust the minute with \uparrow/\downarrow and press ENTER.
The setting for the minute is entered and the background of the day display turns to yellow.
- 6 Set the day with \uparrow/\downarrow and press ENTER.
The day is set and the screen returns to the previous screen.
- 7 Press MENU.
The display returns to the normal screen. If you must make further adjustments, or the setting must be made again, repeat the process from step 1.

Note

If the built-in clock tends to lose time, the internal battery may be exhausted. Please contact your authorized Sony dealer to have the battery replaced.

Displaying the time

- 1 In the TIMER/CLOCK menu, press \uparrow/\downarrow to move the cursor (yellow) to “Clock Display” and press ENTER.
The following menu appears on the screen.



- 2 Select “On” with \uparrow/\downarrow , then press ENTER.
When you hide the menu, the clock appears on the lower right corner of the screen.

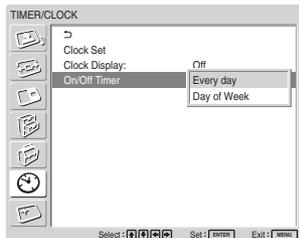
When you press the DISPLAY button on the Remote Commander, the signal currently input and the Picture Mode appear.

If the information is displayed undisturbed for about 5 seconds while the clock appears, it will disappear automatically.

On/Off Timer Function

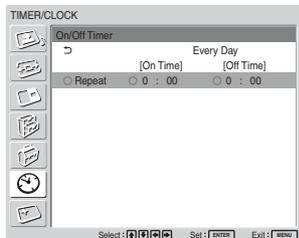
- 1 In the TIMER/CLOCK menu, press **↑/↓** to move the cursor (yellow) to “On/Off Timer” and press ENTER.

The following menu appears on the screen.

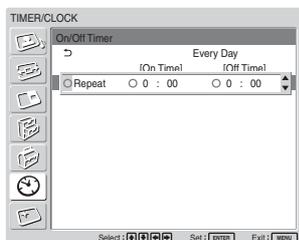


- 2 Select either “Every day” or “Day of Week” with **↑/↓** and press ENTER.

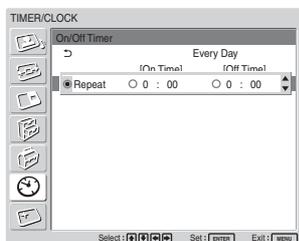
When “Day of Week” is selected, you can set a specific time for each day of a week. When “Every day” is selected, the following screen appears on the screen.



- 3 Press ENTER. The following menu appears on the screen.



- 4 When you want to apply the setting to every day of week, change to and press ENTER. If you press ENTER with the radio button set to , the setting will be only applied once.



- 5 To set the On Time, change to with **↑/↓** and press ENTER.



- 6 Press **↑/↓** to set the On Time and press ENTER. The hour is set and the background of the minute display turns to yellow.

- 7 Press **↑/↓** to set the minute and press ENTER. Press **←** to return to the screen shown in step 2.

- 8 Set the Off Time as you set the On Time.

- 9 Press ENTER. The screen returns to the screen shown in step 2.

Note

The time is not preset in the factory setting, so “-- : --” is displayed for the clock.

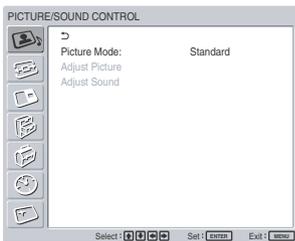
SCREEN SAVER Function

If an image that does not change in brightness or a still image, such as the kind of image displayed on a computer, is displayed for a long time, an after-image (ghosting) may be burned into the display panel. To correct or lessen the severity of this problem, this unit is equipped with a screen saver function. There are five types of screen saver. "Pic. Inversion" reverses the color tone of the image. "Pic. Orbit" changes the position of the picture automatically after a certain time interval. "All White" turns the entire screen white after a certain time interval. "Background" changes the background brightness of the picture. "Auto Dimmer" reduces the picture brightness automatically after a certain time interval.

Reversing the Color Tones of the Image

You can reduce image retention and burn-in by inverting the colors of a stationary image that stays on the screen for a long period of time.

- 1 Press MENU.
The main menu appears on the display panel.



- 2 Press \uparrow/\downarrow to move the cursor (yellow) to "SCREEN SAVER" and press ENTER.
The SCREEN SAVER menu appears on the display panel.

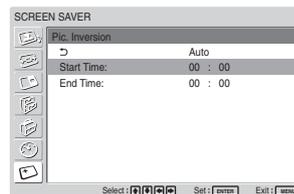


- 3 Press \uparrow/\downarrow to move the cursor (yellow) to "Pic. Inversion" and press ENTER.
The following menu appears on the display panel.

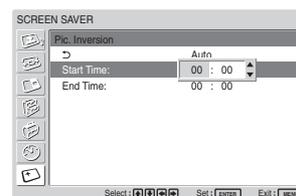


- 4 Select the Pic. Inversion mode with \uparrow/\downarrow .
Off : to set the Pic. Inversion to Off
Auto : Carries out the Pic. Inversion process once a day.
On : Reverses the color tones of the image

When you select Auto, and then press ENTER, the following menu appears.



- (1) Press \uparrow/\downarrow to move the cursor (yellow) to "Start Time" and press ENTER.
The following menu appears and the background of the hour is displayed in relief.



- (2) Set the hour when the image is to be reversed with \uparrow/\downarrow and press ENTER.
The setting for the hour is entered and the background of the minute is displayed in relief.
- (3) Set the minute with \uparrow/\downarrow and press ENTER.
The setting for the minute is entered. Press \leftarrow to return to the screen that appeared when you selected Auto and then pressed ENTER.
- (4) Similarly, set the time when the Pic. Inversion function is to be cancelled.
The display image will be reversed at the Start Time and will return to the original display image at the End Time. This cycle is carried out automatically once a day.

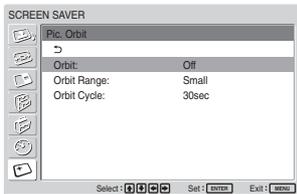
Note

If you set Start Time and End Time to the same time, the setting of Start Time takes priority over that of End Time. The display image does not return to the original image at the End Time. If the Pic. Inversion program is activated when the color tone of the image has already been reversed, the reversing is terminated.

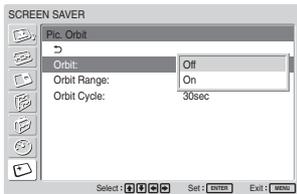
Changing the Image Position Automatically

You can reduce the chance of image retention and burn-in by automatically moving the image position.

- 1 In the SCREEN SAVER menu, press **↑/↓** to move the cursor (yellow) to “Pic. Orbit” and press ENTER. The following menu appears on the display panel.



- 2 Press **↑/↓** to move the cursor (yellow) to “Orbit” and press ENTER. The following menu appears on the display panel.



- 3 Select the Orbit mode with **↑/↓**.
Off: Cancels the Pic. Orbit function.
On: Sets the Pic. Orbit function.
- 4 Press ENTER. The screen returns to the screen shown in step 1.

- 5 Select Orbit Range (moving distance) or Orbit Cycle (time) with **↑/↓** and press ENTER. The following values can be selected.
Orbit Range : Small, Mid, Large
Orbit Cycle : 10sec, 30sec, 1min, 5min

The following menu appears on the display panel. (The illustration below is for selecting Orbit Range.)



- 6 Adjust the Orbit Range or Orbit Cycle with **↑/↓** and press ENTER.

When both Pic Inversion and Pic. Orbit are set to ON

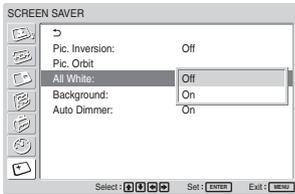
If the Pic. Orbit function is actuated while the picture is reversed, the reversed picture is displayed changing position.

Turning the screen all white

You can reduce image retention and burn-in by turning the screen all white for about 30 minutes.

- 1 In the SCREEN SAVER menu, press **↑/↓** to move the cursor (yellow) to “All White” and press ENTER.

The following menu appears on the display panel.



- 2 Select On with **↑/↓** and press ENTER.

To cancel All White

Select Off in step 2.

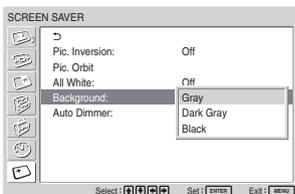
Adjusting the brightness of background of picture

When Wide Mode is set to Normal, image retention or burn-in may occur in the area where the picture (aspect ratio 4:3) separates from its background (dark bands showing on both sides of the picture).

You can reduce the chance of image retention and burn-in by adjusting the brightness of the background.

- 1 In the SCREEN SAVER menu, press **↑/↓** to move the cursor (yellow) to “Background” and press ENTER.

The following menu appears on the display panel.



- 2 Select the brightness of background with **↑/↓** and press ENTER.

Gray : Sets it much brighter.

Dark Gray : Sets it brighter.

Black : Sets it dark.

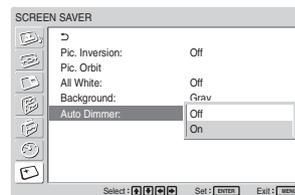
The lower the brightness contrast between the picture and its background, the more reduction in after image and burn-in may result.

Lowering the brightness level gradually

You can reduce the chance of image retention and burn-in by gradually reducing the brightness when there has been no or very little movement in the image for more than 5 minutes. The brightness is automatically restored when movement is detected. When a still image is displayed for more than five minutes, gradually lowers brightness and helps to prevent image retention.

- 1 In the SCREEN SAVER menu, press **↑/↓** to move the cursor (yellow) to “Auto Dimmer” and press ENTER.

The following menu appears on the screen.



- 2 Select On with **↑/↓** and press ENTER.

To cancel Auto Dimmer

Select Off in step 2.

Setting an IP address and communication speed

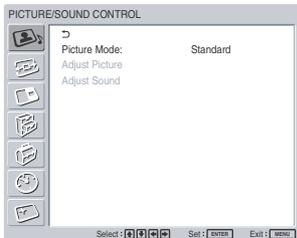
When an optional adaptor with network management capability (such as BKM-FW32, BKM-FW50) is installed in the OPTION1 slot of this unit, the display can be controlled via a network. To use this capability, set the IP address and communication speed as follows.

Note

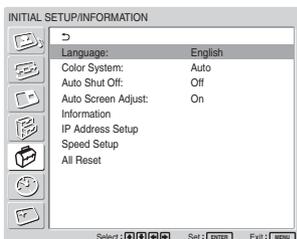
Setting of an IP address and a communication speed is completed by selecting “Execute” and pressing ENTER. When the setting is not completed properly, an error code will be displayed. In such a situation, confirm the setting values and set up again.

Obtaining an IP address automatically (DHCP)

- 1 Press MENU.
The main menu appears on the screen.



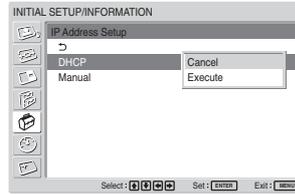
- 2 Select “INITIAL SETUP/INFORMATION” with ↑/↓ and press ENTER.
The INITIAL SETUP/INFORMATION menu appears on the screen.



- 3 Select “IP Address Setup” with ↑/↓ and press ENTER.
The following menu appears on the screen.



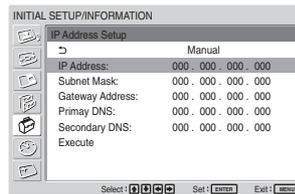
- 4 Select “DHCP” with ↑/↓ and press ENTER.
The following menu appears on the screen.



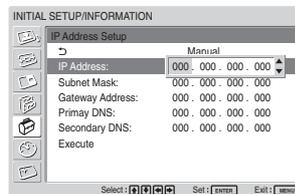
- 5 Select “Execute” with ↑/↓ and press ENTER.
An IP address is automatically obtained.

Setting an IP address manually (Manual)

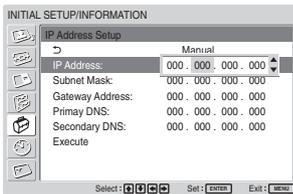
- 1 Select “Manual” in step 4 of “Obtaining an IP address automatically (DHCP)” and press ENTER.
The following menu appears on the screen.



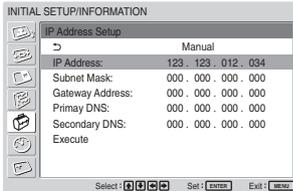
- 2 Select an item to be set manually with ↑/↓ and press ENTER.



- 3 Set the three digit value (0 to 255) for the first box with ↑/↓ on the display unit or numeric keys on the Remote Commander and press ENTER or →.
The cursor moves to the next box.



- 4** Set the three digit value (0 to 255) for each of the four boxes and press ENTER.
The following menu appears on the screen.



- 5** Select the next item to be set manually with **↑/↓** and repeat the same procedure and press ENTER.
6 After values are set for all the desired items, select “Execute” with **↑/↓**, then press ENTER.
An IP address is set manually.

Note

When an IP address is not set properly, the following error codes will be displayed in accordance with the error cause.

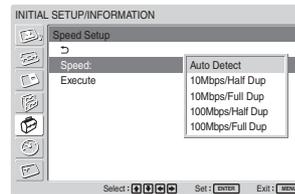
- Error 1** Communication error between the display unit and optional adaptor
- Error 2** A specified IP address is already used for other device.
- Error 3** IP address error
- Error 4** Gateway address error
- Error 5** Primary DNS address error
- Error 6** Secondary DNS address error
- Error 7** Subnet mask error

Setting a communication speed (Speed Setup)

- 1** In the INITIAL SETUP/INFORMATION menu, select “Speed Setup” with **↑/↓** and press ENTER.



- 2** Press ENTER and select a communication speed with **↑/↓**, then press ENTER.
Select “Auto Detect” when you want to set an appropriate communication speed for your network configuration automatically.



- 3** Select “Execute” and press ENTER.
A communication speed has been set.

Self-diagnosis Function

The unit has a self-diagnosis function.

This function shows the display’s condition based on the pattern shown by the flashing of the POWER/STANDBY indicator. The flashing pattern informs you of the display’s current condition.

If the POWER/STANDBY indicator flashes in red, check the number of flashes and contact your authorized Sony dealer.

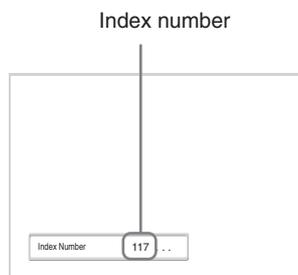
- 1** Check the flashing pattern of the POWER/STANDBY indicator.
The indicator flashes (with an image showing on the display) or flashes at intervals of three seconds (with no image showing on the display).
Count the number of flashes if the indicator flashes at intervals of three seconds. For example, the indicator flashes twice, followed by a three second pause, two more flashes and this pattern repeats. In this case, the count for the number of flashes is two.
- 2** Unplug the unit.
Inform your authorized Sony dealer of the number of flashes.

Operating a Specific Display With the Remote Commander

Using the supplied Remote Commander, you can operate a specific display without affecting other displays installed at the same time.

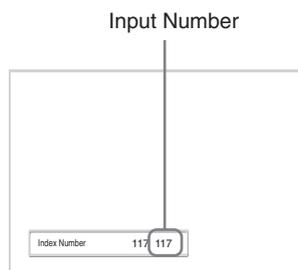
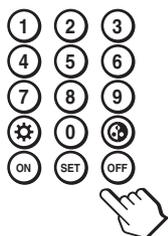
- 1 Press ID MODE ON on the Remote Commander. Monitor index numbers appear in black characters on the lower left menu on the screen. (Every display is allocated an individual preset index number from 1 to 255.)

For details, see “To change the index number” on page 44 (GB).



- 2 Input the index number of the display you want to operate using the 0 – 9 buttons on the Remote Commander.

The input number appears right next to the index number of each display.



- 3 Press ID MODE SET. The characters on the selected display change to green while the others change to red.



You can operate the specified display indicated with green characters only. (Power ON/STANDBY apply to the other displays, as well.)

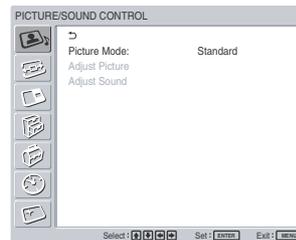
- 4 When all of the setting changes have been completed, press the ID MODE OFF button. The display returns to the normal screen.



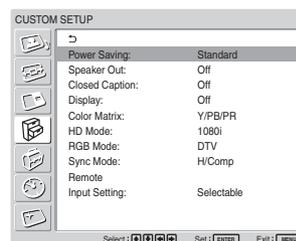
To change the index number

You can change the index number if necessary. When you change the number, use the buttons on the control button section of the display unit. You cannot change the index number using the Remote Commander.

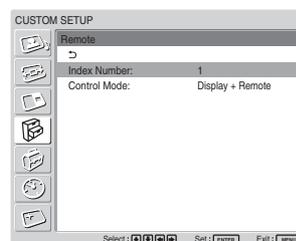
- 1 Press MENU. The main menu appears on the screen.



- 2 Select “CUSTOM SETUP” and press ENTER. The following appears on the screen.



- 3 Select “Remote” with ↑/↓ and press ENTER. The Remote menu appears on the screen.



- 4 Select the index number with ↑/↓ and press ENTER. The menu returns to the Remote menu.

Troubleshooting

Before requesting service, please check the following points.

If the problem persists, contact your local Sony dealer.

Problem	Cause	Remedy
<p>① No picture (Power indicator is lit.)</p>	<p>A different input is selected. <i>In this case, the power indicator lights green.</i></p>	<p>Try pressing one of the input selection buttons (INPUT1, INPUT2, OPTION1, or OPTION2) once or twice on the remote control. <i>In this case, also check Troubleshooting problem ⑨.</i> Or, switch between the input signals by pressing the INPUT button on the top of the display.</p>
	<p>A protective shutdown has activated due to internal heat buildup in the display. <i>In this case, the power indicator flashes red four times in a row.</i></p>	<p>Turn off the power, and make sure that the air vents are not blocked, that there is ample space for air to flow around the display, and that the ventilation in the room is working properly. When the internal temperature returns to normal, the display will operate properly again. <i>For details on installation conditions, see "Precautions" on page 5 (GB) and "Caution" on page 13 (GB).</i></p>
<p>② Colors do not display properly.</p>	<p>The display input is set to COMPONENT (YUV) but the input signal is RGB. Or vice versa.</p>	<p>Try pressing one of the input selection buttons (INPUT2, OPTION1, or OPTION2) once or twice on the remote control. <i>In this case, also check Troubleshooting problem ⑨.</i> Or, switch between the input signals by pressing the INPUT button on the top of the display.</p>
	<p>The "Pic. Inversion" screen saver is set to "Auto" or "On".</p>	<p>To return to the normal picture, set the screen saver to "Off". <i>For details on "Pic. Inversion", see "Reversing the Color Tones of the Image" on page 39 (GB).</i></p>
	<p>The cable connected to VIDEO OUT or S-VIDEO OUT on the display is not connected securely to the device at the other end. (75-ohm termination has been released.)</p>	<p>Check the connection to the device at the other end of the cable. Or, disconnect the cable from VIDEO OUT or S-VIDEO OUT on the display.</p>
	<p>The signal cable is not connected properly. (The connection is poor; the cable is damaged; the connector pins are bent; etc.)</p>	<p>Check the condition of the signal cable.</p>

Problem	Cause	Remedy
③ The screen goes dark after a short time.	The “Auto Dimmer” screen saver is set to “On”.	To prevent the display from going dark, set the screen saver to “Off”. <i>For details on “Auto Dimmer”, see “Lowering the brightness level gradually” on page 41 (GB).</i>
④ The display power or the screen turns off after a short time.	The “Auto Shut Off” function is set to “On”.	To make the display power stay on indefinitely, set this function to “Off”. <i>For details on the “Auto Shut Off” function, see “Auto Shut Off” on page 20 (GB).</i>
	The “On/Off Timer” function has been set.	Check the On/Off Timer setting in the TIMER/CLOCK menu. <i>For details on the “On/Off Timer” function, see “On/Off Timer Function” on page 38 (GB).</i>
	A protective shutdown has activated due to internal heat buildup in the display. <i>In this case, the power indicator flashes red four times in a row.</i>	Turn off the power, and make sure that the air vents are not blocked, that there is ample space for air to flow around the display, and that the ventilation in the room is working properly. When the internal temperature returns to normal, the display will operate properly again. <i>For details on installation conditions, see “Precautions” on page 5 (GB) and “Caution” on page 13 (GB).</i>
⑤ The picture jumps to a different position sometimes.	The “Pic. Orbit” screen saver is set to “On”.	To prevent the picture from moving, set the screen saver to “Off”. <i>For details on “Pic. Orbit”, see “Changing the Image Position Automatically” on page 40 (GB).</i>
⑥ Horizontal lines of static disturb the picture.	The internal temperature of the display is getting high.	Turn off the power, and make sure that the air vents are not blocked, that there is ample space for air to flow around the display, and that the ventilation in the room is working properly. When the internal temperature returns to normal, the picture will display properly again. <i>For details on installation conditions, see “Precautions” on page 5 (GB) and “Caution” on page 13 (GB).</i>

Problem	Cause	Remedy
<p>⑦ The remote control does not work.</p>	<p>In the remote control settings, the “Control Mode” is set to “Display Unit Only”.</p>	<p>Using the control buttons on the top of the display, check the setting by opening the main menu and then selecting “CUSTOM SETUP” → “Remote” → “Control Mode”.</p> <p><i>For details on the “Control Mode”, see “Control Mode” on page 19 (GB).</i></p>
	<p>A cable is connected to the CONTROL S IN connector.</p>	<p>Check the condition of the CONTROL S IN connector.</p> <p>The remote control cannot be used while the display is controlled via a Control S connection.</p>
	<p>The batteries in the remote control are drained.</p>	<p>Try operating the display by pressing the power button and control buttons on the top of the display.</p> <p>Also, check the condition of the batteries in the remote control.</p>
	<p>Something is blocking the remote control signal detector on the display.</p>	<p>Make sure nothing is blocking the detector.</p>
	<p>(If the input signal does not toggle after pressing the INPUT2, OPTION1, or OPTION2 button at least two times) the “Input Setting” for the selected input is set to “Fix”.</p>	<p>If you want the input signal to toggle with each press of the button, set the “Input Setting” to “Selectable”.</p> <p><i>For details on the “Input Setting”, see “Input Setting” on page 19 (GB).</i></p>
<p>⑧ The power button and control buttons on the display do not work.</p>	<p>In the remote control settings, the “Control Mode” is set to “Remote Only”.</p>	<p>Check the setting by opening the main menu with the remote control and then selecting “CUSTOM SETUP” → “Remote” → “Control Mode”.</p> <p><i>For details on the “Control Mode”, see “Control Mode” on page 19 (GB).</i></p>
<p>⑨ Neither the remote control nor a Control S connection can be used to toggle between RGB and YUV (component), or between VIDEO (component video) and S-VIDEO (Y/C).</p>	<p>The “Input Setting” for the selected input is set to “Fix”.</p>	<p>If you want the input signal to toggle with each press of the button, set the “Input Setting” to “Selectable”.</p> <p><i>For details on the “Input Setting”, see “Input Setting” on page 19 (GB).</i></p>

Specifications

Video processing

Preset signal	<i>See page 24 (GB).</i>
Sampling rate	13.5 MHz to 140 MHz
Panel system	AC-type Plasma Display Panel
Display resolution	1366 dots (horizontal) × 768 lines (vertical)
Pixel pitch	0.81 (horizontal) × 0.81 (vertical) mm ($\frac{1}{16} \times \frac{1}{16}$ inches)
Picture size	1106 (horizontal) × 622 (vertical) mm ($43 \frac{5}{8} \times 24 \frac{1}{2}$ inches)
Panel size	50-inch (diagonal 1270 mm)

Inputs and Outputs

INPUT1

DVI	DVI (DVI Specification Rev. 1.0 compliant)
AUDIO	Stereo minijack (×1) 500 mVrms, high impedance

INPUT2

RGB/COMPONENT	D-sub 15-pin (female) (×1) (<i>See "Pin assignment" on page 49 (GB).</i>)
AUDIO	Stereo minijack (×1) 500 mVrms, high impedance

CONTROL S IN/OUT Minijack (×2)

AUDIO OUT RCA pin jack (×2)
500 mVrms, high impedance

REMOTE (RS-232C)

D-sub 9-pin (×1)

SPEAKER 7 W + 7 W (6 ohms), direct unbalanced impedance:
6-16 ohms

VIDEO/S VIDEO input/output adaptor BKM-FW10

VIDEO (NTSC, PAL, SECAM, NTSC4.43, PAL60, PAL-M, PAL-N)

VIDEO IN	BNC (×1) Composite video, 1 Vp-p ±2 dB sync negative, 75 ohms (automatic termination)
VIDEO OUT	BNC (×1) Loop-through
S VIDEO IN	Mini DIN 4-pin (×1) Y (luminance): 1 Vp-p ±2 dB sync negative, 75 ohms terminated C (chrominance): Burst 0.286 Vp-p ±2 dB (NTSC), 75 ohms terminated Burst 0.3 Vp-p ±2 dB (PAL), 75 ohms terminated
S VIDEO OUT	Mini DIN 4-pin (x1) Loop-through
AUDIO IN	RCA pin jack (×2) 500 mVrms, high impedance

General

Power requirements
100 V to 240 V AC, 50/60 Hz,
4.6 A (Maximum)

Power consumption
440 W

Operating conditions
Temperature: 0 °C to +35 °C
(32 °F to 95 °F)
Humidity: 20% to 90%
(no condensation)
Atmospheric pressure:
800 to 1100 hPa

Storing/transporting conditions
Temperature: -10 °C to +40 °C
(14 °F to 104 °F)
Humidity: 20% to 90%
(no condensation)
Atmospheric pressure:
700 to 1100 hPa

Dimensions
1256 × 753 × 112 mm
(49 $\frac{1}{2}$ × 29 $\frac{3}{4}$ × 4 $\frac{1}{2}$ inches)
(w/h/d, excluding projections)

Mass Approx. 44 kg (97 lb.)

Supplied accessories

- AC power cord (1)
- AC plug holder (2)
- Digital RGB (DVI-D) signal cable (Single Link) (1)
- Component video signal cable (D-sub 15 - RCA × 3) (1)
- BNC - RCA conversion adaptor (1)
- Cable holder (6)
- Remote Commander RM-980 (1)
- Size AAA (R03) batteries (2)
- Operating instructions (1)

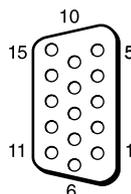
Optional accessories

- Display stand SU-50FW
- Speaker SS-SP50FW
- Option Adaptors for system expansion, BKM-FW series

Design and specifications are subject to change without notice.

Pin assignment

RGB/COMPONENT connector (D-sub 15-pin)



Pin No.	Signal
1	Red video or R-Y or P _R
2	Green video or Y or Sync On Green
3	Blue video or B-Y or P _B
4	Ground
5	Ground
6	Red ground
7	Green ground
8	Blue ground
9	Not used
10	Ground
11	Ground
12	SDA
13	H sync or composite sync
14	V sync
15	SCL

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