FUJITSU

Advanced
Video
Movement

USER'S MANUAL

50″/61″ WIDE PLASMA DISPLAY

PDS5003W/PDS5004W/
PDS5003U/PDS5004U/
PDS6101W

Plasmavision™

Contents

Before using the display, read this manual carefully so that you know how to use the display correctly.
Refer to this manual whenever questions or problems about operation arise. Be sure to read and observe the safety precautions.
Keep this manual where the user can see it easily.
* Installation and removal require special expertise. Consult your product dealer for details.

FUJITSU GENERAL LIMITED

FUJITSU

DECLARATION OF CONFORMITY

according to EN45014

We

Fujitsu General (U.K.) Co. Limited

of

Unit 150, Centennial Park, Centennial Avenue Elstree, Hertfordshire, WD6 3SG

Manufacturer: Shinjyo Fujitsu General Limited
702-3 Kanazawa Shinjyo-shi
Yamagata Japan

declares under our sole responsibility that the product,

Type: 50" PLASMA DISPLAY
Model Name: PDS5003W

to which this declaration relates are in conformity with the following standards;

European Standards:

EMC: a. EN55022 1994/A1:1995/A2:1997/A3:1998 Class A
b. EN61000-3-2 1995
c. EN61000-3-3 1995
d. EN55024 1998
(EN61000-4-2 1995 / EN61000-4-3 1996)
(EN61000-4-4 1995 / EN61000-4-5 1995 / EN61000-4-6 1996)
(EN61000-4-8 1993 / EN61000-4-11 1994)
Safety: e. EN60065

By conformance with the standard referenced, the product follows
the provisions of the directives listed below.

a. EC Council Directive 89/336/EEC of 3rd, May 1989
b. EC Council Directive 92/31/EEC of 28th, April 1992
c. EC Council Directive 93/68/EEC of 22nd, July 1993
d. EC Council Directive 73/23/EEC of 19th, February 1973

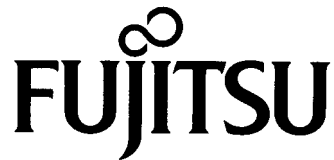Place of Issue: United Kingdom
Date of Issue: Jan. 2002

Signature: _____

H. Hirosaki, Chief Exective Officer
Fujitsu General (U.K) Co. Limited

Declaration reference: Fujitsu General (U.K) Co. Limited
Unit 150, Centennial Park, Centennial Avenue Elstree,
Hertfordshire, WD6 3SG, United Kingdom
Tel: + 44-(0)20-8731-3450   Fax:+ 44-(0)20-8731-3451

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Manufacturer: Shinjyo Fujitsu General Limited
                702-3 Kanazawa Shinjyo-shi
                Yamagata Japan

declares under our sole responsibility that the product,

Type: 50" PLASMA DISPLAY
Model Name: PDS5004W

to which this declaration relates are in conformity with the following standards;

European Standards:

EMC: a. EN55022 1994/A1:1995/A2:1997/A3:1998 Class B
        b. EN61000-3-2 1995
        c. EN61000-3-3 1995
        d. EN55024 1998
           (EN61000-4-2 1995 / EN61000-4-3 1996)
           (EN61000-4-4 1995 / EN61000-4-5 1995 / EN61000-4-6 1996)
           (EN61000-4-8 1993 / EN61000-4-11 1994)

Safety: e. EN60065

By conformance with the standard referenced, the product follows
the provisions of the directives listed below.

a. EC Council Directive 89/336/EEC of 3rd, May 1989
b. EC Council Directive 92/31/EEC of 28th, April 1992
c. EC Council Directive 93/68/EEC of 22nd, July 1993
d. EC Council Directive 73/23/EEC of 19th, February 1973

Place of Issue: United Kingdom
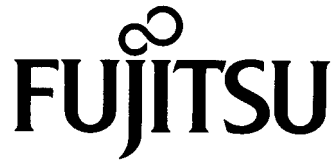Date of Issue: Jan. 2002

Signature: _____

H. Hirosaki, Chief Exective Officer
Fujitsu General (U.K) Co. Limited

Declaration reference: Fujitsu General (U.K) Co. Limited
                         Unit 150, Centennial Park, Centennial Avenue Elstree,
                         Hertfordshire, WD6 3SG, United Kingdom
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FUJITSU

DECLARATION OF CONFORMITY

according to EN45014

We

Fujitsu General (U.K.) Co. Limited

of

Unit 150, Centennial Park, Centennial Avenue Elstree, Hertfordshire, WD6 3SG

Manufacturer: Shinjyo Fujitsu General Limited
702-3 Kanazawa Shinjyo-shi
Yamagata Japan

declares under our sole responsibility that the product,

Type: 61" PLASMA DISPLAY
Model Name: PDS6101W

to which this declaration relates are in conformity with the following standards;

European Standards:
EMC: a. EN55022 1994/A1:1995/A2:1997/A3:1998 Class A
b. EN61000-3-2 1995
c. EN61000-3-3 1995
d. EN55024 1998
(EN61000-4-2 1995 / EN61000-4-3 1996)
(EN61000-4-4 1995 / EN61000-4-5 1995 / EN61000-4-6 1996)
(EN61000-4-8 1993 / EN61000-4-11 1994)
Safety: e. EN60950 1992/A1:1993/A2:1993/A3:1995/A4:1997

*By conformance with the standard referenced, the product follows
the provisions of the directives listed below.*

a. EC Council Directive 89/336/EEC of 3rd, May 1989
b. EC Council Directive 92/31/EEC of 28th, April 1992
c. EC Council Directive 93/68/EEC of 22nd, July 1993
d. EC Council Directive 73/23/EEC of 19th, February 1973

Place of Issue: United Kingdom
Date of Issue: Feb. 2002

Signature: _____

H. Hirosaki, Chief Executive Officer
Fujitsu General (U.K) Co. Limited

Declaration reference: Fujitsu General (U.K) Co. Limited
Unit 150, Centennial Park, Centennial Avenue Elstree,
Hertfordshire, WD6 3SG, United Kingdom
Tel: + 44-(0)20-8731-3450   Fax:+ 44-(0)20-8731-3451

SAFETY PRECAUTIONS

FCC NOTICE

• PDS5003W/PDS5003U/PDS6101W: A Class A digital device

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

• PDS5004W/PDS5004U: A Class B digital device

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.

IMPORTANT INFORMATION

WARNING: This is a Class A and Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

WARNING: TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

IMPORTANT

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFEGUARDS

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD**. In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service. Please read these "Important Safeguards" carefully before use.

– All the safety and operating instructions should be read before the product is operated.

– The safety and operating instructions should be retained for future reference.

– All warnings on the product and in the operating instructions should be adhered to.

– All operating instructions should be followed.

– Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

– Do not use attachments not recommended by the product manufacturer as they may cause hazards.

– Do not use this product near water. Do not use immediately after moving from a low temperature to high temperature, as this causes condensation, which may result in fire, electric shock, or other hazards.

– The apparatus shall not be exposed to dripping or splashing.

– No objects filled with liquids, such as vases, shall be placed on the apparatus.

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– Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer.

– When the product is used on a cart, care should be taken to avoid quick stops, excessive force, and uneven surfaces which may cause the product and cart to overturn, damaging equipment or causing possible injury to the operator.

– Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the product on bed, sofa, rug, or other similar surface. It should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.)

For proper ventilation, separate the product from other equipment, which may prevent ventilation, and keep distance more than 10 cm.

– This product should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply of your home, consult your product dealer or local power company.

– This product is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.

– Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the product.

– For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.

– Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.

– Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

– Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.

– Unplug this product from the wall outlet and refer service to qualified service personnel under the following conditions:

    a) When the power supply cord or plug is damaged.

    b) If liquid has been spilled, or objects have fallen on the product.

    c) If the product has been exposed to rain or water.

    d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.

    e) If the product has been dropped or damaged in any way.

    f) When the product exhibits a distinct change in performance—this indicates a need for service.

– When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

– Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

– The product should be placed more than one foot away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.

– When connecting other products such as VCR's, and personal computers, you should turn off the power of this product for protection against electric shock.

– Do not place combustibles behind the cooling fan. For example, cloth, paper, matches, aerosol cans or gas lighters that present special hazards when overheated.

– Use only the accessory cord designed for this product to prevent shock.

The power supply voltage rating of this product is AC220–240 V (50" W type) and AC120 V (50" U type) and AC100-240 V (61" W type), and the power cord attached conforms to the following power supply voltage. Use only the power cord designated by our dealer to ensure Safety and EMC.
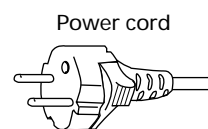
When it is used with other power supply voltage, the power cable must be changed.

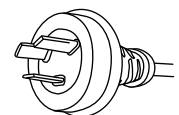Use the standard power plug and cord set of the specified country.

Consult your product dealer.
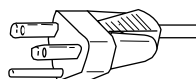
Power cord

Power supply voltage:	AC 100–125 V	AC 200–240 V	AC 240 V (SAA TYPE)
	(50″U,61″W Type:Included)	(50″U,61″W Type:Not Included)	(Not included)
	(50″W Type:Not Included)	(50″W Type:Included)	

E-3

FEATURES

This display uses a plasma display panel and is only 9.8 cm (50") /11.8 cm (61") deep. With its high picture quality and performance, it is perfectly suited for multimedia applications.

Variety of input signals

- In addition to video, S-video, and RGB, signals, this display supports input of high-quality video signals such as DVD and HDTV.
- The display has an RGB input terminal to receive digital RGB signal of DVI standard to display a high definition picture quality in addition to mD-sub terminal and BNC terminal.
- Depending on the model, the display supports video input for different color television systems as follows: NTSC, PAL, SECAM, PAL60, N-PAL, M-PAL, 4.43NTSC.
- The display has a component video input terminal to receive signals from the DVD player and HDTV equipment as well as digital broadcasting signals (color difference signals).
- The display has an RGB input terminal to receive signals, including VGA, SVGA, XGA,SXGA and UXGA[1].

5 screen sizes (Video input mode) and 3 screen sizes (RGB input mode)

- This display offers a total of five different screen sizes in video input mode: Wide1, Wide2, Zoom1, and Zoom2.

  A Normal mode is also available for displaying of normal-size (4:3 aspect ratio) pictures.
- The display has an Auto mode to switch screen size automatically depending on the contents of software.
- Three different screen sizes in RGB input mode (Normal, Wide, and Zoom) are also available.

Vertical installation

- The display can be installed vertically, enabling advertisement to be displayed. In this case, you can set up the display so that on-screen information, such as input modes and menus, is displayed properly.

Power management function

- The display features a DPMS (Display Power Management Signaling) function that ensures automatic power saving capability.

Flexible as part of a system

- You can operate the display by remote control using the RS-232C interface.
- If you have two or more displays, you can assign a unique number to each of them so that you can select which one you want to use.
- Input Priority function for selecting automatic switching to desired mode is provided to avoid troublesome operation.
- Main unit key lock function can prevent mischief and malfunction.

Others

- Troublesome adjustment of clock phase can be avoided by automatic clock phase adjustment function (Automatic Clock Phase function).
- You can specify the color temperature.
- The white screen and screen orbiter functions are available to minimize phosphor burn-in.
- 3 audio input terminals and 8W + 8W (50") / 20W + 20W (61") external speaker output terminal are available.
- A clear picture can be obtained by digital noise reduction function.
- A display suitable for such film materials as movie pictures can be made by 24 frame mode function.

[1] The refresh rate of 60, 72, 75 and 85 Hz for SVGA (800 x 600) and those of 60, 70, 75 Hz for XGA (1024 x 768) and those of 60, 75 Hz for SXGA (1280 x 1024) and those of 60, 75, 85 Hz for UXGA (1600 x 1200) are supported.
   Note that the SXGA and UXGA pictures will be compressed when displayed on the screen.

E-4

ACCESSORIES

CHECKING ACCESSORIES

One remote control   Two AA batteries   One user's manual   One power cable   Two big ferrite cores and
                                                                                                           two small ferrite cores
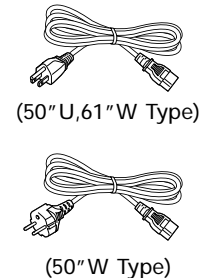
Manual

(50″U,61″W Type)

(50″W Type)
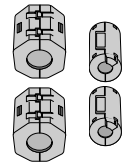
HANDY TIPS

- Pictures may become "burnt" into the screen phosphors if the screen is left on for extended periods. To ensure that the display has a prolonged service life, be sure to use a screen orbiter, white screen. This will ensure the same picture or pattern is not constantly displayed for long periods. (See P.E-38-39.)

- The plasma display panel, which is built for maximum precision, provides more than 99.99% effective pixels. You may find, however, that some pixels constantly remain lit or dimmed.

- The display has a fan to prevent its internal temperature from rising.

- Be careful with the air delivered by the fan. It may be very hot.

- Contact your dealer if you find that the display does not seem to function properly when used with other audio-visual equipment.

  You may need to move your display if it produces degraded pictures or noise due to electromagnetic radiation, or if the infrared remote control does not function properly.

- Pictures may not be displayed properly if you connect a non-standard PC to the RGB input terminal. In this case, contact your dealer for more information.

- The protective circuit, built into the display, automatically turns off the power if the display has a problem. In this case, you will see that the power indicator lamp flashes red.
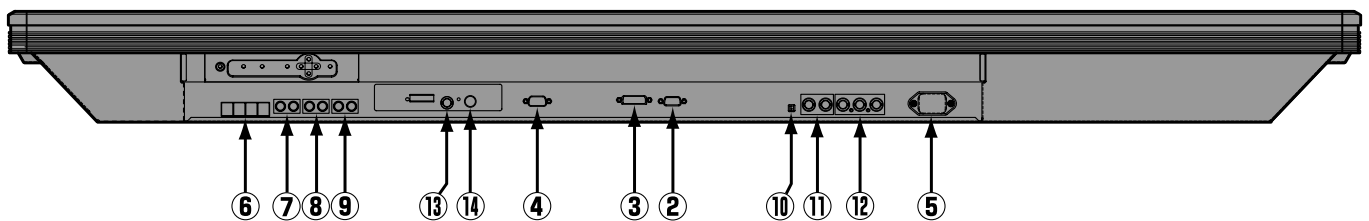
Warning

If the power indicator lamp flashes red, this signifies that the display has developed a problem. When this happens, be sure to remove the power plug from the receptacle to prevent fire or electric shock. Then, check the display in accordance with the instructions given on P. E-42, or contact your dealer.

- Viewing the screen constantly for extended periods can strain your eyes. Be sure to stay at a proper distance (at least 1.9 m or 6.3 feet (50") / 2.4 m or 8.0 feet (61")) from the screen and to look occasionally away while working.

- Have the display inspected and cleaned by your dealer at regular intervals.

Information
Cables for connecting the display to external equipment are not supplied. Contact your dealer for more information on these products.

E-5

INSTALLATION

To prevent the display's internal components from overheating, make sure that the display is installed in a well-ventilated location.

Be sure to use the optional desktop stand, ceiling-mounting unit, wall-mounting unit and other unit when installing this display. Also, be sure that your dealer performs the installation.

See the appropriate instruction manual for more information on the installation hardware you select.

To ensure proper heat radiation, provide at least as much space around the display as shown below.

* Make sure that the display is installed in a location where the temperature can be maintained between 0°C and 40°C.

* Never attempt to tilt the display sideways or backward.

* To prevent the power and other cables from being accidentally pulled, be sure to make the wiring work along the wall or through the corners of floor.

* The display can be installed with either of its sides facing down.

* To prevent an accident and ensure safety in the event of an earthquake, fix the display securely into position as described below.

When using the stand
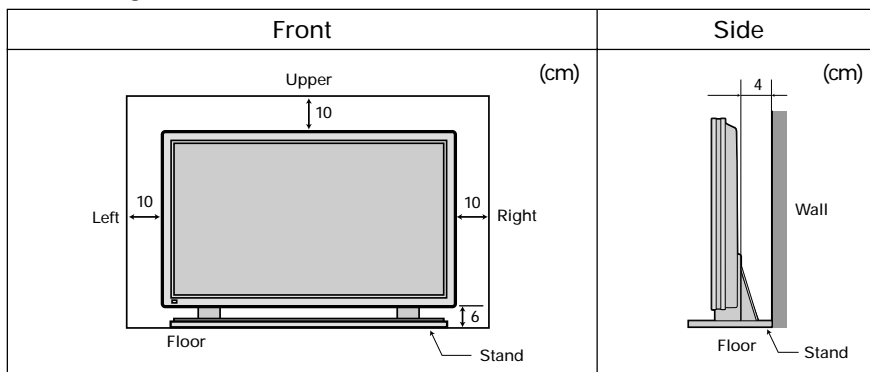
When using other unit than desktop stand (horizontal type)
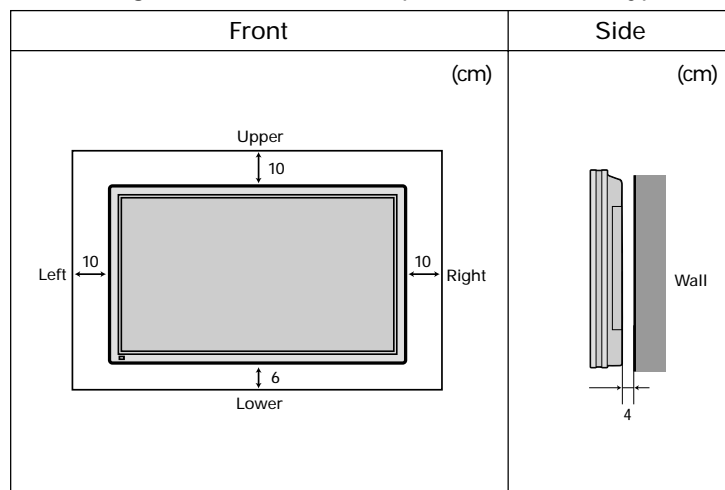
When using other unit than desktop stand (vertical type)
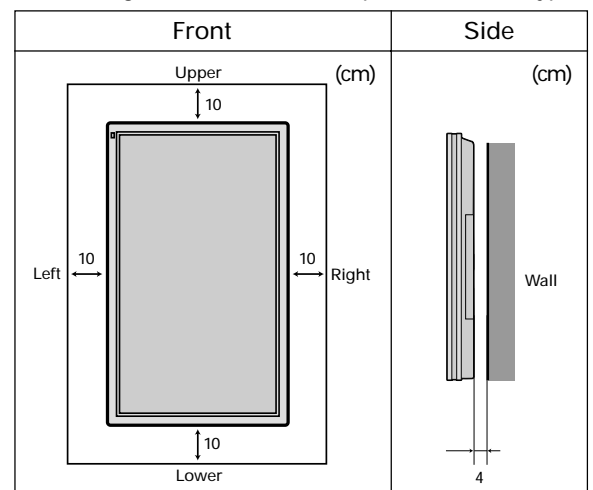
CAUTION: When installing the display vertically, setup vertical installation. (Refer to Installation. See P.E-40)
Consult your dealer when installing the display vertically.

Note

The display is a highly precise piece of equipment and therefore must be packed properly before transportation. Be sure to use only those packing materials originally supplied with the display when repacking it.

Reference

See P.E-42 for more information on options.

PART NAMES AND FUNCTIONS

Front (both 50" and 61")

(bottom)

```
ON       (GRN)
STD-BY   (RED)
NO-SIGNAL (ORG)
```

Control Panel (bottom)
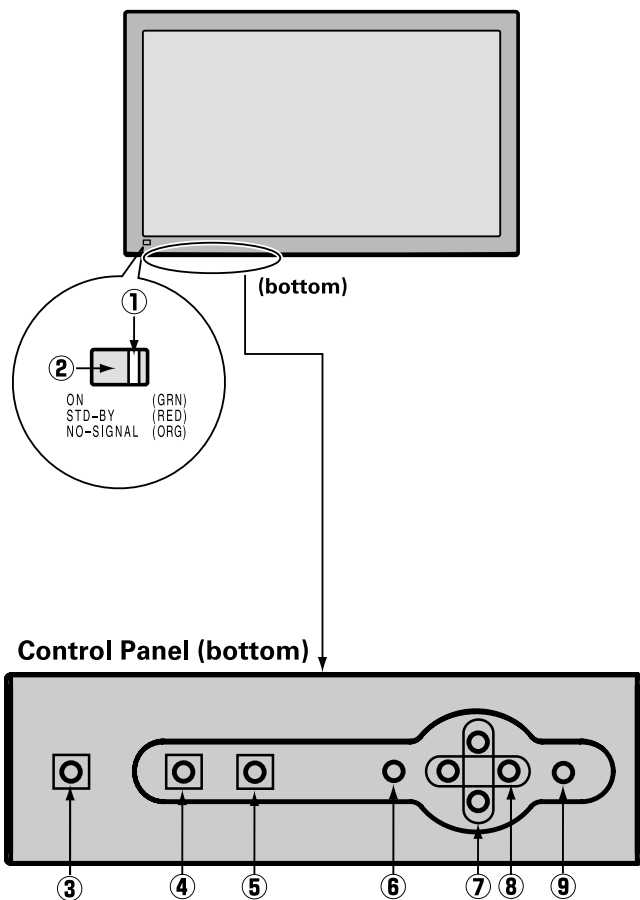
① **Power indicator lamp**

This lamp shows the state of the power supply.

Lit (red): Power OFF (stand-by)

Lit (green): Power ON

Lit (orange): Power saving (DPMS: Power saving function) mode ON

Flashing (red): Malfunction (Flashes differently depending on the type of malfunction. See P. E-46 for more information.)

② **Remote control signal receiver**

Receives signals from the remote control.

③ **Power button**

Turns the power ON or OFF (stand-by).

④ **Input mode selector button [MODE]**

Switches between picture input modes.

⑤ **Wide screen selector button [WIDE]**

Switches the screen over to a desired wide screen.

⑥ **Menu button [MENU]**

Displays picture adjustment menus.

⑦ **Adjustment buttons [▼ / ▲]**

The [▼ / ▲] buttons can also be used to scroll through the options when a menu is displayed.

⑧ **Adjustment buttons [◀ / ▶]**

The [◀ / ▶] buttons can also be used to scroll through options in a menu, or to change values.

⑨ **Enter button [ENTER]**

Press this button to finalize the selection of a desired option in a menu.

Warning

If the power indicator lamp flashes red, this signifies that the display has developed a problem. When this happens, be sure to remove the power plug from the receptacle and contact your dealer. Leaving the display power ON can result in fire or electric shock.

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Bottom (50")

Bottom (61")

① **OFF/STD-BY ⏻ switch**

　　OFF　　　　:The power indicator lamp goes off, and the power can't be turned on by the power button. The power is partly supplied.

　　STD-BY ⏻:The power indicator lamp lights red, and the power can be turned on or off by the power button.

② **RGB 2 input terminal (RGB 2 INPUT/mD-sub)**

Connect this terminal to the PC's display (analog RGB) output terminal or decoder (digital broadcast tuner, etc.) output terminal.

③ **RGB 1 input terminal (RGB 1 INPUT/DVI-D)**

Connect this terminal to the PC's display (digital RGB) output terminal

*The connection cable No.88741-8000 made by **molex Inc.** is recommanded.

④ **RS-232C terminal (RS-232C)**

This terminal is provided for you to control the display from the PC. Connect it to the RS-232C terminal on the PC.

When connecting a cable, attach a ferrite core to the cable. (See P. E-13.)

⑤ **Power input terminal**

Connect this terminal to the power cable supplied with the display.

When connecting a cable,attach a ferrite core to the cable. (See P. E-13)

⑥ **External speaker output terminal (EXT SP)**

Connect this terminal to the optionally available speaker.

 (When using other speaker than the optional one, use 6 Ω speaker for 50" type and 4 - 16 Ω for 61" type.)

When connecting a cable,attach a ferrite core to the cable. (See P. E-13)

*See the speaker instruction manual for more information.

⑦ **Sound 3 input terminal (AUDIO 3 INPUT)**

Connect this terminal to the sound output terminal of your VCR, etc. (See P.E-37 for the selection of audio input for video input.)

⑧ **Sound 2 input terminal (AUDIO 2 INPUT)**

Connect this terminal to the sound output terminal of your VCR, etc. (See P.E-37 for the selection of audio input for video input.)

⑨ **Sound 1 input terminal (AUDIO 1 INPUT)**

Connect this terminal to the sound output terminal of your VCR, etc. (See P.E-37 for the selection of audio input for video input.)

⑩ **RGB 3 synchronization switch (SYNC SW TTL/ANALOG (75 Ω))**

This switch is used to terminate horizontal (H) terminal and vertical (V) terminal, out of RGB3 input terminals, with 75 Ω .

▮ TTL : Does not terminate.

▮ ANALOG (75 Ω): Terminates.

⑪+⑫ **RGB 3 input terminal (RGB 3 INPUT/BNC)**

Connect this terminal to the PC's display (analog RGB) output terminal or decoder (digital broadcast tuner,etc.) output terminal.

*When RGB3 input terminal is connected, Comp.video mode is not available. (See P. E-35.)

⑫ **Component video input terminal (COMPONENT VIDEO INPUT)**

Connect this terminal to the component video output (color difference output) terminal of your HDTV unit or DVD player.

*When Comp.video input terminal is connected, RGB3 mode is not available. (See P. E-35.)

⑬ **Video input terminal (VIDEO INPUT)**

Connect this terminal to the video output terminal of your VCR.

⑭ **S-Video input terminal (S-VIDEO INPUT)**

Connect this terminal to the S-video output terminal of your VCR.

E-9

Description of Input Terminals

DVI-D terminal (RGB 1 INPUT/DVI-D)
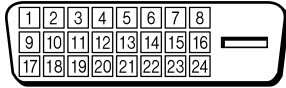
Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	T.M.D.S. Data2−	9	T.M.D.S. Data1−	17	T.M.D.S. Data0−
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
4	−	12	−	20	−
5	−	13	−	21	−
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground(for +5V)	23	T.M.D.S. Clock+
8	−	16	Hot Plug Detect	24	T.M.D.S. Clock−

RGB2 input terminal (RGB2 INPUT/mD-sub)
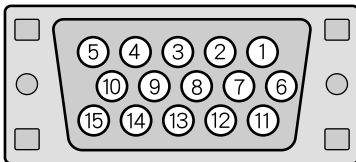
Pin No.	Input signal	Pin No.	Input signal
1	Red	9	—
2	Green	10	Ground
3	Blue	11	—
4	—	12	—
5	Ground	13	Horizontal synchronization
6	Ground	14	Vertical synchronization
7	Ground	15	—
8	Ground	Frame	Ground

RS-232C terminal (RS-232C)
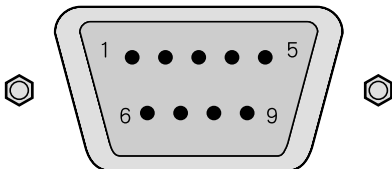
Pin No.	Signal
1	DCD (Data Carrier Detect)
2	RD (Received Data)
3	TD (Transmit Data)
4	DTR (Data Terminal ready)
5	GND (Ground)
6	DSR (Data Set Ready)
7	RTS (Request To send)
8	CTS (Clear To Send)
9	RI (Ring Indication)

Remote Control
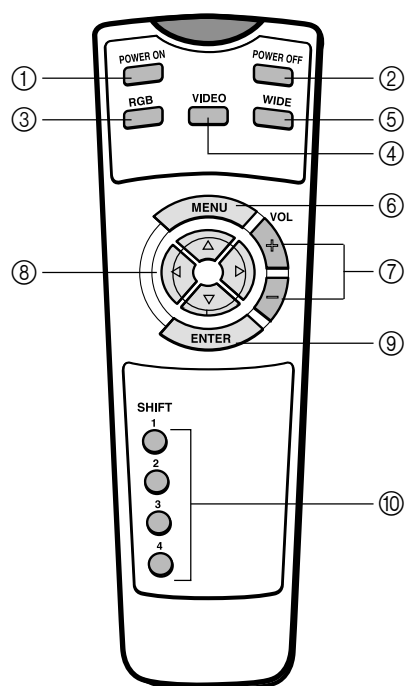
① **Power ON button [POWER ON]** → **(See P. E-16.)**

② **Power OFF button [POWER OFF]** → **(See P. E-16.)**

③ **RGB input mode selector button [RGB]** → **(See P. E-17.)**

④ **Video input mode selector button [VIDEO]** → **(See P. E-17.)**

⑤ **Wide screen selector button [WIDE]** → **(See P. E-18–E-19.)**

⑥ **Menu button [MENU]** → **(See P. E-20–E-41.)**

Use this button to display a desired menu for adjusting the picture.

⑦ **Volume adjustment buttons [VOL +/-]** → **(See P. E-16.)**

Adjust the volume. Press the + button to increase the volume.

Press the - button to reduce the volume.

⑧ **Adjustment buttons [◀ / ▶ / ▲ / ▼]** → **(See P. E-20–E-41.)**

Use these buttons to scroll through options in a menu and change values.

⑨ **Enter button [ENTER]** → **(See P. E-20–E-41.)**

Press this button to finalize the selection of a desired menu or option within a menu.

⑩ **Display selector buttons [SHIFT 1–4]** → **(See P. E-39 .)**

When you use two or more displays, you can use these buttons to control up to four displays by assigning a unique number to each display.

PUTTING BATTERIES IN THE REMOTE CONTROL
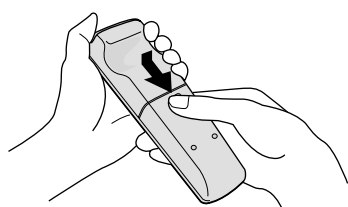
① To remove the cover, slide it outwards while pressing it down.
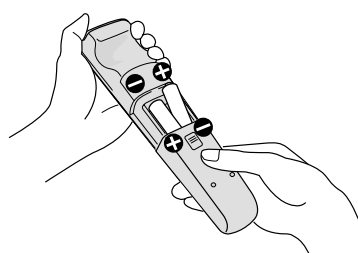
② Place two AA batteries in the remote control. Make sure that the batteries are properly oriented.
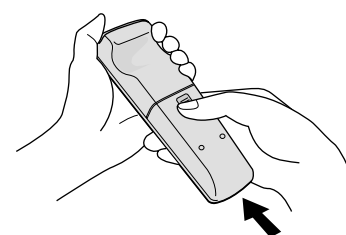
③ Close the cover until it snaps into place.

CAUTION: Be sure to use replacement batteries of the same type as the original ones.
When disposing of used batteries, please comply with governmental regulations or environmental public institution's rules that apply in your country/area.

Note

The remote control will not function properly if the batteries are dead. Be sure to replace them as needed.

Do not use rechargeable batteries (Ni-Cd).

E-11

USING THE REMOTE CONTROL

PRECAUTIONS

To prevent malfunction, be sure not to apply any form of severe shock to the remote control.

To prevent malfunction or deformation, be sure not to allow the remote control to become wet; also, keep it away from hot locations or heating equipment.

Be sure not to clean the remote control using a cloth dampened in any volatile solvent, such as benzene or thinner.

EFFECTIVE RANGE FOR THE REMOTE CONTROL

Point the remote control at the display's signal receiver when using it.

Make sure that there are no obstacles between the remote control and the display's signal receiver.
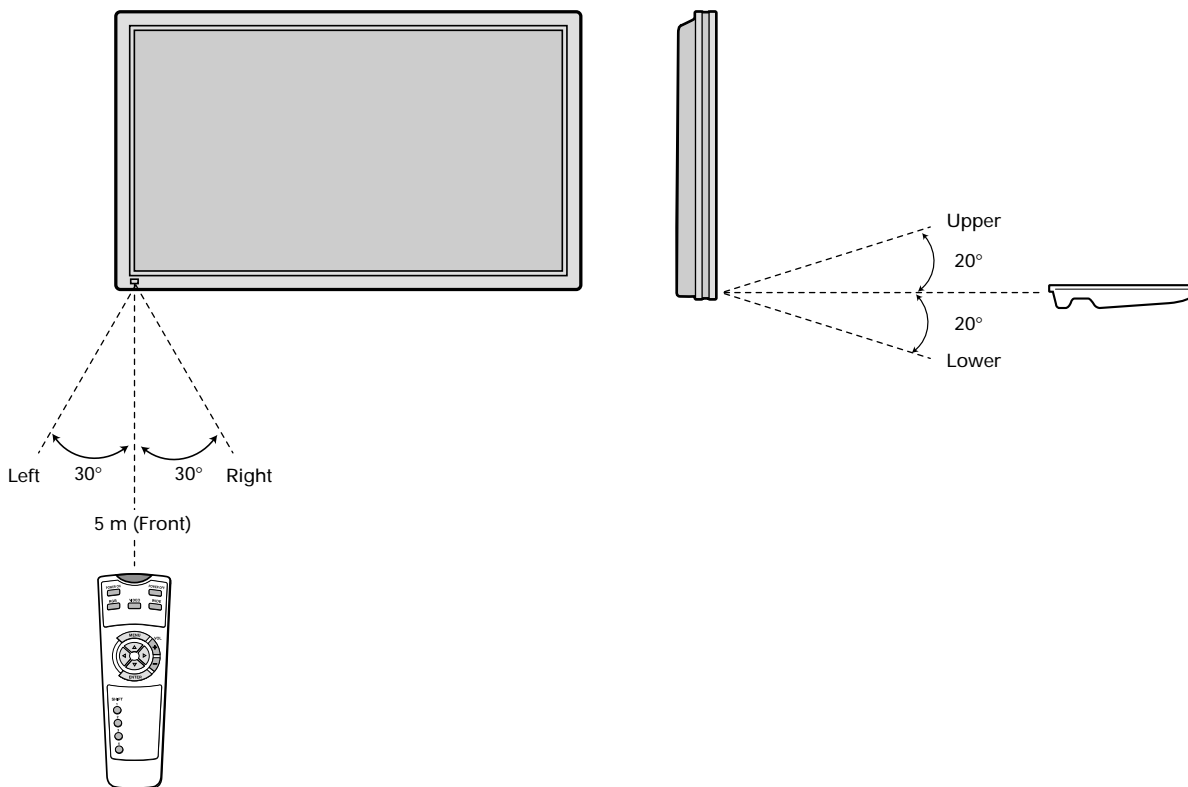
Information

The remote control may not function properly if you use a high-frequency fluorescent lamp. If you experience problems, move the lamp or use the remote control from a different position.

CONNECTING THE DISPLAY TO EXTERNAL EQUIPMENT

Be sure to turn OFF the power to the display and external equipment before making any connections.

No cables are supplied with the display for connection to external equipment. The type of cable to be used varies depending on the PC model. Contact your dealer for more information.

RECEPTACLE

Make sure that the power cable's grounding wire is grounded.

The display comes with a 3-prong power plug; one prong is connected to the grounding wire. If you have only a 2-hole receptacle, you will need to have it replaced. Contact your dealer for more information.

CONNECTING THE DISPLAY TO EXTERNAL EQUIPMENT

Carefully check the terminals for position and type before making any connections.

Loose connectors can result in picture or color problems. Make sure that all connectors are securely inserted into their terminals.

Terminal	Connector
VIDEO INPUT	BNC
S-VIDEO INPUT	S terminal
COMPONENT VIDEO INPUT	BNC x 3
RGB INPUT	mD-sub 15-pin , BNC x 5 , DVI-D
AUDIO INPUT	Pin jack
RS-232C	D-sub 9-pin

Ferrite cores

These ferrite cores are used to attenuate undesired signals.

Two big ferrite cores

When connecting a cable to the power input terminal, RS-232C terminal, attach one of these ferrite cores to the cable near the terminal.

Power Cable —
Ferrite core —

RS-232C Cable —
Ferrite core —
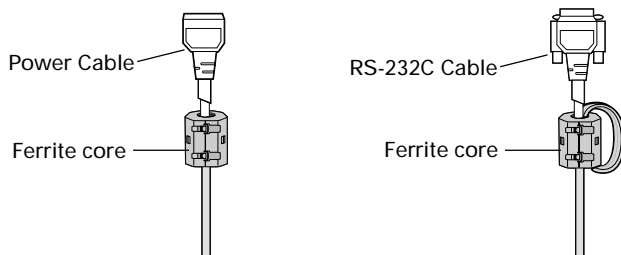
Two small ferrite cores

When connecting a cable to the external speaker output terminal attach one of these ferrite cores to the cable near the terminal.

Ferrite core —

Ferrite core —

E-13

(50″)

COMPONENT
VIDEO INPUT
(color difference
input) /
RGB3 INPUT

| VIDEO INPUT | S-VIDEO INPUT | RS-232C | RGB1 INPUT (DVI-D) | RGB2 INPUT (mD-sub) | AUDIO1 INPUT | AUDIO2 INPUT | AUDIO3 INPUT | EXT SP | POWER INPUT | |

To video output terminal | To S-video output terminal | To RS-232C output terminal | To display (digital RGB) output terminal | To display (analog RGB) output terminal | To sound output terminal | To sound output terminal | To sound output terminal | To speaker | To receptacle | To color difference output terminal / To display (analog RGB) output terminal

(61″)

POWER
INPUT

COMPONENT
VIDEO INPUT
(color difference
input) /
RGB3 INPUT

RGB2
INPUT
(mD-sub)

RGB1
INPUT
(DVI-D)

VIDEO
INPUT

RS-232C

S-VIDEO
INPUT

AUDIO1
INPUT

AUDIO2
INPUT

AUDIO3
INPUT

EXT
SP

To receptacle

To color difference
output terminal /
To display
(analog RGB)
output terminal

To display
(analog RGB)
output
terminal

To display
(digital RGB)
output
terminal

To RS-232C
output
terminal

To S-video
output
terminal

To video
output
terminal

To sound
output
terminal

To sound
output
terminal

To sound
output
terminal

To
speaker

E-15

BASIC OPERATIONS

TURNING ON THE POWER
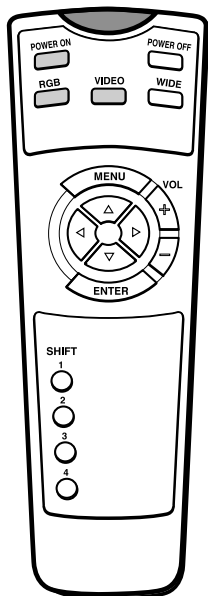
1 **Select the OFF/STD-BY ⏻ switch at the STD-BY ⏻ of the display.**

When you do so, the power indicator lamp turns red.

(This applies only to 50″display.)

2 **Press** ^{POWER ON} **on the remote control.**

When you do so, the power indicator lamp turns green.

3 **Press** ^{RGB} **or** ^{VIDEO} **to select a desired input mode.**

* You can also use the switches on the display's control panel to accomplish these steps.

TURNING OFF THE POWER

Press ^{POWER OFF} **when the power is ON.**

The power indicator lamp turns red.

ADJUSTING THE VOLUME

Press ⊞ to increase the volume.

Press ⊟ to reduce the volume.

Any value between 0 and 40 can be selected.

* "No Audio" appears if you press ⊞ or ⊟ after you have selected "No Audio" for "Audio Input". (See P. E-37.)

* Note that the volume level remains stored even when you turn OFF the power.
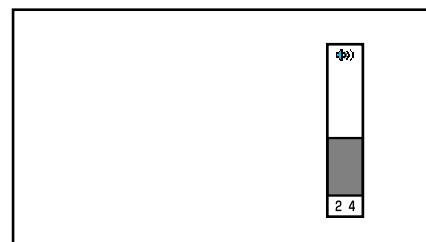
When the volume adjustment button is pressed

E-16

SELECTING INPUT MODE

VIDEO INPUT MODE
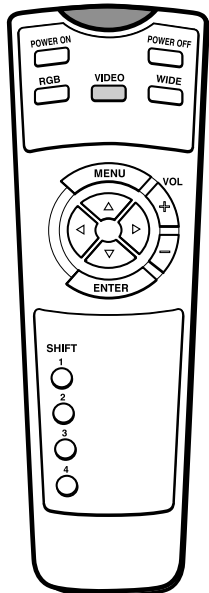
1 Press [VIDEO] to select a desired input mode.

Each time you press [VIDEO], a different input mode appears. The sequence is as follows:

→Video → S-video → Comp.video →

Video: Displays pictures from equipment connected to the Video terminal.

S-video: Displays pictures from equipment connected to the S-video terminal.

Comp.video: Displays pictures from equipment connected to the component video input terminal.

* When RGB-PC is selected in BNC Input mode, Comp. video mode can not be input. (See P.E-35.)

S-video mode
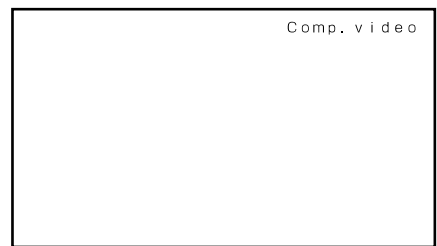
Comp.video mode

* You can also use the switches on the display's control panel to accomplish these steps.

RGB INPUT MODE
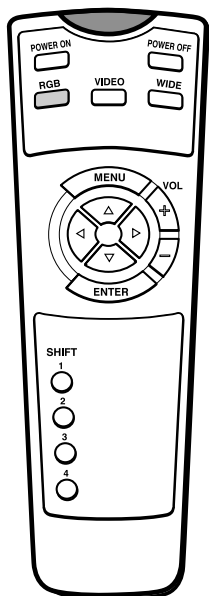
1 Press [RGB] to select a desired input mode.

Each time you press [RGB], a different input mode appears. The sequence is as follows:

→RGB1 → RGB2 → RGB3 →

RGB1: Displays pictures from equipment connected to the RGB1 (DVI-D) terminal.

RGB2: Displays pictures from equipment connected to the RGB2 (mD-sub) terminal.

RGB3: Displays pictures from equipment connected to the RGB3 (BNC x5) terminal.

* When Comp. video is selected in BNC Input mode, RGB3 mode can not be input. (See P. E-35)

RGB1 mode

RGB2 mode

* You can also use the switches on the display's control panel to accomplish these steps.

E-17

WATCHING PICTURES ON THE WIDE SCREEN

SWITCHING BETWEEN SCREEN SIZES
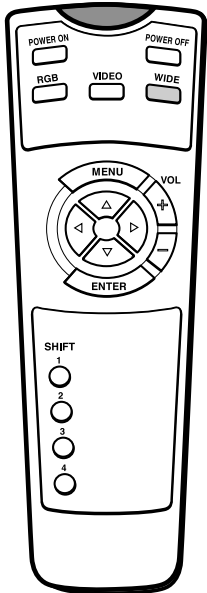
1 **Press** WIDE.

The currently selected mode will appear.

2 **Press** WIDE **to select a desired picture mode.**

Each time you press WIDE, a different picture mode appears. The sequences used are as follows:

When you are in a Video or S-video input mode

→Normal→Auto →Wide1→Wide2 ┐
└── Zoom2 ← Zoom1 ←────┘

When you are in a Comp.video input mode

→Normal →Wide1→Wide2 ┐
└── Zoom2 ← Zoom1 ←──┘

When you are in an RGB input mode

→Normal →Wide → Zoom ┐
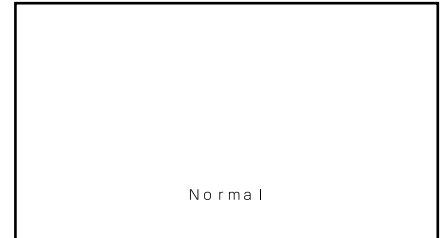
* Depending on the type of signal, some aspects may not be selected.

* You can also use the switches on the display's control panel to accomplish these steps.

Normal mode

Wide1 mode

Note
• Displaying a picture in a Normal mode for extended periods of time may cause phosphor burn-in.
• A variety of picture modes are available with this display. Remember that if you select a mode with an aspect ratio (ratio of frame width to frame height) different from that of the TV program or video media, the pictures will appear differently than if you had selected a mode having the same aspect ratio.
• Showing a movie or similar premium event at a different aspect ratio from its original one at any event site, restaurant, or bar for profit-making purposes or for a public audience may constitute a copyright infringement.
  For films, try to select a mode having the same aspect ratio as the original picture; this enables the director's original intentions to be preserved.

Reference
See P. E-28–E-29 for how to adjust the picture size and position.

SCREEN SIZE

Normal

Displays pictures of normal size (i.e., a 4:3 aspect ratio).

Auto

The screen size changes automatically in accordance with the contents of image software you use.

Wide1

Displays natural-looking pictures of standard size on the wide screen.

Picture of standard size → Wide1

Wide2/Wide

Ideal for displaying vertically extended pictures such as squeezed pictures and recorded HDTV programs.

Vertically extended picture → Wide2

Zoom1/Zoom

Enlarges horizontally extended pictures equally in all directions to maintain the aspect ratio constant.

Horizontally extended picture → Zoom1

Zoom2

Reduces the height of horizontally extended pictures with captions, without eliminating the caption. Only the height of pictures is reduced, not the height of the caption.

(Captions may not be easy to read, however, depending on the picture.)

Horizontally extended picture with caption → Zoom2
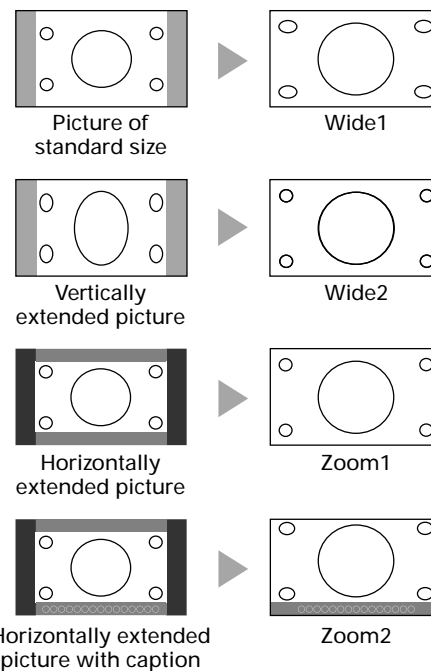
ASPECT RATIO

The following aspect ratios are available.

4:3 aspect ratio
(VHF/UHF broadcasting, BS broadcasting)

4 / 3
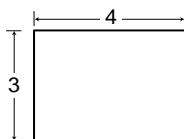
16:9 aspect ratio
(HDTV broadcasting)

16 / 9
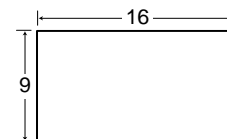
1.85:1 aspect ratio
(Vista Vision size)

1.85 / 1
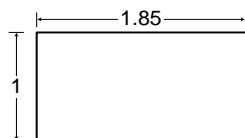
2.35:1 aspect ratio
(Cinema Vision size)

2.35 / 1
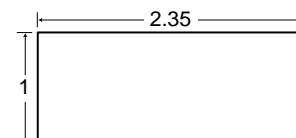
Information

You may find dark areas on top and at the bottom of the screen if you select one of the Zoom modes for media while using the Vista Vision or Cinema Vision size i.e., the sizes used frequently for picture software.

E-19

HOW TO USE MENUS

SELECTING OPTIONS IN A MENU

Use the [MODE] button on the display or 📺 and 📺 on the remote control to select a desired input mode.

1 Press 〈MENU〉.

The main menu screen will appear.

2 Press ◄ or ► to switch between sub-menus.

Each time you press ◄ or ►, one of the available menus appears.

The corresponding menu screen will appear.

3 Press ▲ or ▼ to select an option for adjustment/setup.

```
 ■ ■ ◀)) ■ ■
PICTURE
Contrast             0
Brightness           0
Color                0
Tint                 0
Sharpness            0
Picture Mode
               Dynamic
Color Temp.
              Standard
User Color Temp.
Noise Reduction
                   Off
MENU quit
ENTER next
```
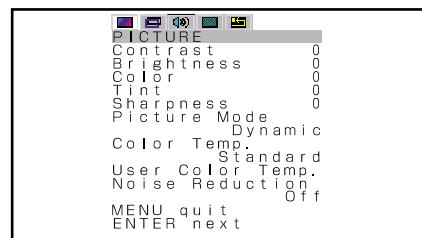
Ex.: "PICTURE" selected in the main menu screen

A total of five different menus (PICTURE, POSITION/SIZE, AUDIO, FEATURES, FACTORY DEFAULT) are available.

You can easily distinguish between these menus as shown below.
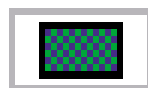
PICTURE	POSITION/SIZE	AUDIO	FEATURES	FACTORY DEFAULT

*Press ◄ , ► , ▲ or ▼ to make adjustment/setup, and press 〈ENTER〉 to store.

* Do not change input signals when any of the menus are displayed.

* Audio Input menu will not be displayed when "No Audio" is selected. (See P. E-37.)

USING THE PICTURE MENU

When you finish selecting a desired option in the PICTURE menu screen, press 〈ENTER〉 .

At this time, the adjustment/setup screen for that option will appear.

You can use ◄ or ► to change the value for the option. Press 〈ENTER〉 to store. (See P. E-26–E-27.)

Changes you make will be stored only for the selected mode.

```
 ■ ■ ◀)) ■ ■
PICTURE
Contrast             0
Brightness           0
Color                0
Tint                 0
Sharpness            0
Picture Mode
               Dynamic
Color Temp.
              Standard
User Color Temp.
Noise Reduction
                   Off
MENU quit
ENTER next
```
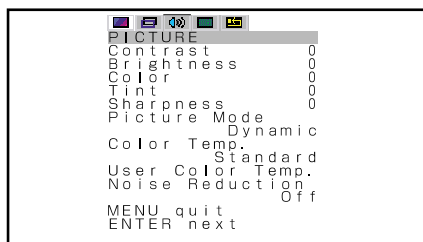
PICTURE Menu screen (Video Input Mode)

```
 ■ ■ ◀)) ■ ■
PICTURE
Contrast             0
Brightness           0
Color                0
Tint                 0
Sharpness            0
Picture Mode
               Dynamic
Color Temp.
              Standard
User Color Temp.



MENU quit
ENTER next
```
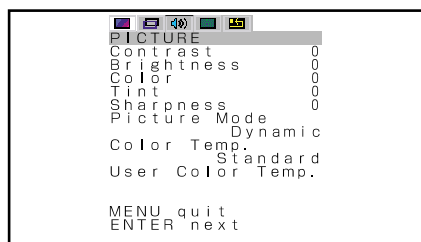
PICTURE Menu screen (RGB Input Mode)

E-20

Option	Function	Operation	Range/Setting
(1) Contrast	Adjusts picture contrast.	: Higher contrast : Lower contrast	-30 to +30
(2) Brightness	Adjusts screen brightness.	: Brighter screen : Darker screen	-60 to +60
(3) Color	Adjusts color darkness.	: Darker colors : Lighter colors	-60 to +60
(4) Tint	Adjusts tint.	: More greenish tint : More purplish tint	Video, S-video: -30 to +30 Comp.video, RGB-Video, RGB-PC, Decoder : -60 to +60
(5) Sharpness	Adjusts picture sharpness.	: Sharper pictures : Less sharp pictures	Video, S-video, Comp.video, RGB-Video, Decoder :-16 to +16 RGB-PC : -4 to +4
(6) Picture Mode	Can set up the picture mode.	Use or for switching.	Dynamic/Fine/Real1/Real2/Static
(7) Color Temp.	Adjusts color temperature.	Use or for switching.	Warm/Standard/Cool/User
(8) User Color Temp.	Can set up when User is selected in Color Temp.	Press or to select Red, Green or Blue and press or to make adjustment.	0 to 255 for each of Red, Green and Blue
(9) Noise Reduction (for Video, S-video, Comp.video)	Sets up noise reduction.	Use or for switching.	Off/Min./Std./Max.

USING THE POSITION/SIZE MENU

When you finish selecting a desired option in the POSITION/SIZE menu screen, press ENTER .

When you do so, the adjustment screen for that option appears.

Press or to select option and press or to make adjustment. Press ENTER to store. (See P. E-28–E-29.)

Changes you make will be stored only for the selected mode.

*You cannot adjust screen size in RGB1 (DVI-D) mode.
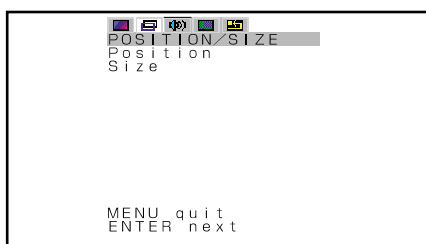
```
POSITION/SIZE
Position
Size




MENU quit
ENTER next
```
POSITION/SIZE Menu screen
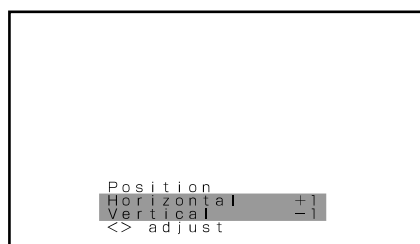
```
Position
Horizontal    +1
Vertical      -1
<> adjust
```
"Position" adjustment screen

Option	Function	Operation	Range/Setting

(1) Position	Adjusts screen position.		Video, S-video
			  Horizontal: -30 to +30
			  Vertical Zoom: -15 to +15
			        Others:-7 to +7
			Comp.video: -16 to +16
			  1080I,720P: -32 to +32
			RGB-PC: -150 to + 150
			RGB-Video, Decoder: -16 to + 16
			  1080I,720P: -32 to +32

Horizontal	Adjusts horizontal position.	: Moves screen to the right. : Moves screen to the left.	
Vertical	Adjusts vertical position.	: Moves screen up. : Moves screen down.	
(2) Size	Adjusts screen size.		Video, S-video: -7 to +7 Comp.video: -4 to +4 RGB-PC: -25 to +50 RGB-Video, Decoder: -4 to +4
Width	Adjusts width.	: Increases width. : Reduces width.	
Height	Adjusts height.	: Increases height. : Reduces height.	

E-21

HOW TO USE MENUS (Continued)

USING THE AUDIO MENU

When you finish selecting a desired option in the AUDIO menu screen, press ⟨ENTER⟩ .

When you do so, the adjustment screen for that option appears.

Press ▼ or ▲ to select option and press ◄ or ► to make adjustment. Press ⟨ENTER⟩ to store. (See P. E-30–E-31.)

The adjustments you make will be stored for each audio input terminal.

*Audio Input menu will not be displayed when "No Audio" is selected. (See P. E-37.)
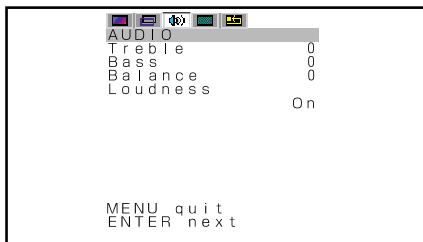
```
AUDIO
Treble          0
Bass            0
Balance         0
Loudness
                On




MENU quit
ENTER next
```
AUDIO Menu screen

Option	Function	Operation	Range/Setting
(1) Treble	Adjusts treble.	►: Stronger treble ◄: Weaker treble	-6 to +6
(2) Bass	Adjusts bass.	►: Stronger bass ◄: Weaker bass	-6 to +6
(3) Balance	Adjusts volume balance.	►:Higher volume from right-hand speaker ◄:Higher volume from left-hand speaker	-10 to +10
(4) Loudness	Adjusts loudness.	Use ◄ or ► for switching.	On /Off (disabled)

USING THE FEATURES MENUS

- **FEATURES setup screen has 5 options of Adjustment, Function, On Screen Menu, Input Terminal and Others.**

- **Options with "⌐" on the right**

    When you select an option with "⌐", press ⟨ENTER⟩ . The adjustment/setup screen for that option appears.(See P. E-32–E-40.)

    You can use ◄ or ► on this screen to make selections or changes.Press ⟨ENTER⟩ to store.

- **Options with no "⌐" on the right**

    When you select an option with no "⌐", press ◄ or ► to make selections or changes. Press ⟨ENTER⟩ to store. (See P. E-32–E-40.)

FEATURES Menu
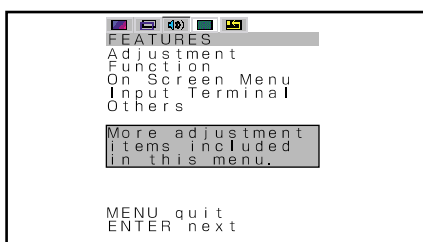
```
FEATURES
Adjustment
Function
On Screen Menu
Input Terminal
Others

More adjustment
items included
in this menu.


MENU quit
ENTER next
```
FEATURES Menu screen (Comp.video Input Mode)
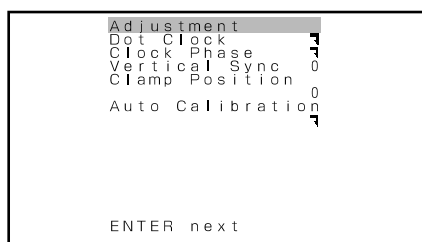
```
Adjustment
Dot Clock        ⌐
Clock Phase      ⌐
Vertical Sync  0
Clamp Position
                 0
Auto Calibration
                 ⌐


ENTER next
```
Adjustment Menu screen
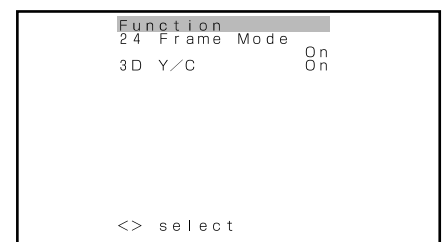
```
Function
24 Frame Mode
                On
3D Y/C          On




<> select
```
Function Menu screen
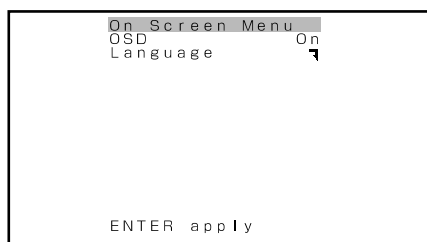
```
On Screen Menu
OSD              On
Language          ⌐




       ENTER apply
```
On Screen Menu screen
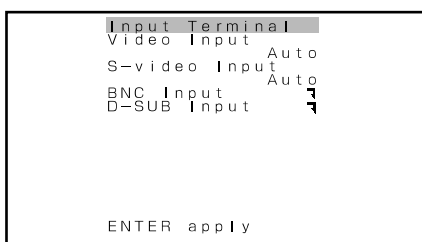
```
Input Terminal
Video Input
              Auto
S-video Input
              Auto
BNC Input      ⌐
D-SUB Input    ⌐




       ENTER apply
```
Input Terminal Menu screen
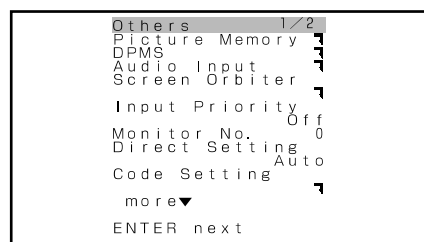
```
Others        1/2
Picture Memory ⌐
DPMS           ⌐
Audio Input    ⌐
Screen Orbiter ⌐
Input Priority
              Off
Monitor No.    0
Direct Setting
              Auto
Code Setting   ⌐
       more▼
       ENTER next
```
Others(1/2) Menu screen

Adjustment Menu (See P. E-32–E-33.)

Option	Function	Operation	Range/Setting
(1) Dot Clock (for RGB2, RGB3)	Adjusts the dot clock.	Eliminates blur when the optimum value is selected with ◖ or ◗.	-60 to +60
(2) Clock Phase (for RGB2, RGB3)	Adjusts clock phase.	Eliminates blur when the optimum value is selected with ◖ or ◗.	Auto/Manual (Can adjust 1 to 32 for Manual)
(3) Vertical Sync (for RGB2, RGB3)	Corrects vertical synchronization signal.	Use ◖ or ◗ to select the optimum value for eliminating flicker.	-1 to +1
(4) Clamp Position (for Comp.video, RGB2, RGB3)	Adjusts clamp pulse phase.	Use ◖ or ◗ for switching.	-8 to +8
(5)Auto Calibration (for RGB2, RGB3)	Selects the optimum dynamic range of images.	Select Execute and use ▲ or ▼ to select an option.	Execute Yes/No

Function Menu(See P. E-32, E-34.)

Option	Function	Operation	Range/Setting
(1) 24 Frame Mode (for Video, S-video, Comp.video)	Displays the optimum movie pictures.	Use ◖ or ◗ for switching.	On (Movie) / Off (Normal)
(2) 3D Y/C (for Video(3.58NTSC))	Selects whether to enable the 3D Y/C circuit.	Use ◖ or ◗ for switching.	On (3D Y/C circuit) / Off (3-line)

On Screen Menu(See P. E-32, E-34)

Option	Function	Operation	Range/Setting
(1) OSD	Selects whether to display information other than menus.	Use ◖ or ◗ for switching.	On (displayed) / Off (not displayed)
(2) Language	Selects language used for menus.	Display the "Language" selection screen and use ▲ or ▼ to select a language.	English Deutsch (German) Español (Spanish) Français (French) Italiano (Italian) Português (Portuguese)

E-23

Input Terminal Menu(See P. E-32, E-35–E-36.)

Option	Function	Operation	Range/Setting
(1) Video Input (for Video)	Selects video mode.	Use ◗ or ◖ for switching.	Auto/NTSC/PAL/SECAM/ PAL60/N-PAL/M-PAL/ 4.43NTSC
(2) S-video Input (for S-video)	Selects video mode.	Use ◗ or ◖ for switching.	Auto/NTSC/PAL/SECAM/ PAL60/N-PAL/M-PAL/ 4.43NTSC
(3) BNC Input	Selects BNC Input signal.	Display BNC Input screen and press ▼ or ▲ to select an option. Use ◗ or ◖ for switching. Select Comp.video, RGB-Video or Decoder by Function to set up Mask.	Function Comp.video/RGB-Video/ RGB-PC/Decoder Mask Off/5/10/15 (dot)
(4) D-SUB Input	Selects D-SUB Input signal.	Display D-SUB Input screen and press ▼ or ▲ to select an option. Use ◗ or ◖ for switching. Select Decoder by Function to set up Mask.	Function RGB-PC/Decoder Mask Off/5/10/15 (dot)

Others Menu(See P. E-32, E-36–E-40.)

Others Menu screen is divided into the following two screens.

```
Others          1/2
Picture Memory
DPMS
Audio Input
Screen Orbiter

Input Priority
                Off
Monitor No.     0
Direct Setting
                Auto
Code Setting

  more▼

ENTER next
```

```
Others          2/2
   ▲prev
White Screen
                Off
Exhibition Mode
                Off
Installation
         Horizontal
Key Lock
                Off
Information



ENTER next
```
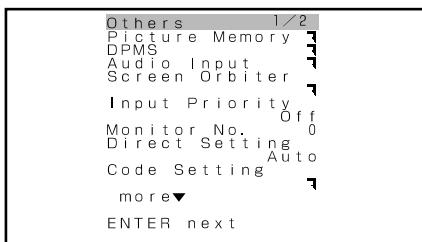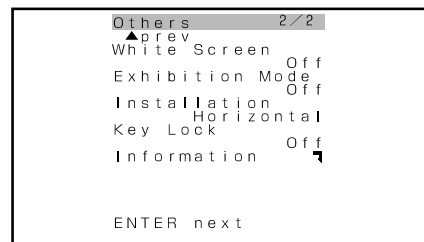
Others(1/2) Menu screen   Others(2/2) Menu screen

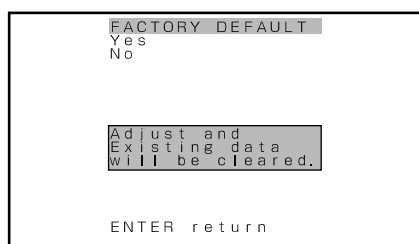| Option	Function	Operation	Range/Setting
(1) Picture Memory	Storing the setting of Picture menu in 8 pattern.	Display Picture Memory screen and press ▼ or ▲ to select an option. Press ◗ or ◖ to select Memory number.	Memory 1/2/3/4/5/6/7/8
(2) DPMS (for other than RGB1)	Specifies time before DPMS starts. Can specify the background color when specifying time.	Display DPMS screen and press ▼ or ▲ to select an option. Use ◗ or ◖ for switching. Can specify background by setting time to other than Off.	Time Off (disabled)/1 min./ 15 min./45 min./60 min. Background Black/White
(3) Audio Input	Selects audio input terminal.	Display the "Audio Input" adjustment screen and use ▼ or ▲ to select an option. Use ◗ or ◖ to switch between available choices for the selected option.	No Audio /Audio 1 /Audio 2/ Audio 3

| Option	Function	Operation	Range/Setting
(4) Screen Orbiter (for RGB)	Sets up screen orbiter.	Display the "Screen Orbiter" adjustment screen and use ● or ● to select an option. Use ● or ● to switch between available choices for the selected option.	Mode/Time Off (disabled) Time (every 1 hr) Mode (every time mode is switched) Moving area Min.(moves in small range) Std.(moves in moderate range) Max. (moves in wide range)
(5) Input Priority	Specifies input mode of highest priority.	Use ● or ● for switching.	Off/RGB2/RGB3/Video/ S-video/Comp.video
(6) Monitor No.	Selects display number.	Use ● or ● for switching.	0 (no setup)/ 1/2/3/4
(7) Direct Setting (for RGB)	Selects input signal.	Use ● or ● for switching.	RGB1: Auto/VGA/WVGA/XGA/ WXGA RGB2, RGB3: Auto/VGA/WVGA/480P/ XGA/WXGA/SXGA/ SXGA+
(8) Code Setting (for RGB2, RGB3)	Specifies and displays type of input signal directly.	Display Code Setting screen and press ● or ● to select an option. Select Manual to set up Parameter.	Auto/Manual
(9) White Screen	Sets up to display white over the entire screen.	Use ● or ● for switching.	On /Off(disabled)
(10) Exhibition Mode	Sets up Exhibition mode.	Use ● or ● for switching.	On (Exhibition mode)/ Off(disabled)
(11) Installation	Sets up whether horizontal or vertical installation.	Use ● or ● for switching.	-90 Deg. (counterclockwise)/ Normal/ +90 Deg. (clockwise)
(12) Key Lock	Locks the main unit button.	Use ● or ● for switching.	On (Key Lock)/ Off(disabled)
(13) Information	Displays system operation status.	Display the "Information" screen.	Display only

USING THE FACTORY DEFAULT MENU

- **Select FACTORY DEFAULT and execute to restore the adjustment/setting made in the MENU to factory settings. (See P. E-41.)**
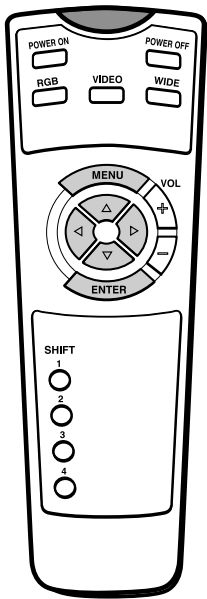
```
FACTORY DEFAULT
Execute




MENU quit
ENTER next
```
FACTORY DEFAULT Menu screen
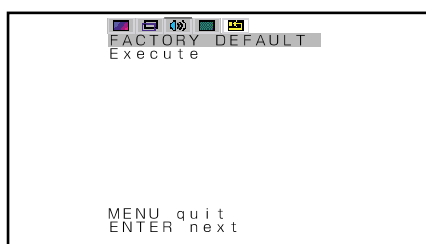
```
FACTORY DEFAULT
Yes
No



Adjust and
Existing data
will be cleared.


ENTER return
```
Yes/No selection screen

Option	Function	Operation	Range/Setting
FACTORY DEFAULT	Restores the adjustment/ setting made in the MENU to factory settings.	Select Execute and use ● or ● to select an option.	Yes/No

E-25

ADJUSTING PICTURES (PICTURE MENU)

BASIC OPERATIONS [EX.: ADJUSTING TINT (Tint)]

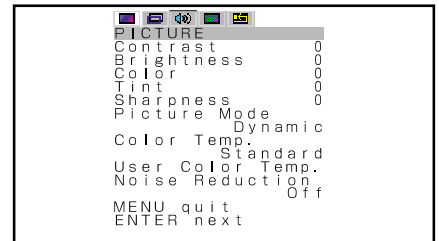You can make changes to all picture adjustment options in the PICTURE Menu.

The changes you make will be stored for a selected input mode. Therefore, you need to select a desired input mode before making any changes.

1 Press MENU.

The main menu screen will appear.

```
PICTURE
Contrast              0
Brightness            0
Color                 0
Tint                  0
Sharpness             0
Picture Mode
              Dynamic
Color Temp.
              Standard
User Color Temp.
Noise Reduction
                  Off
MENU quit
ENTER next
```

"PICTURE" selected in the main menu screen

2 Press ◄ or ► to select "PICTURE".

Each time you press ◄ or ►, one of the available menus appears in the following sequence:

PICTURE ◄─► POSITION/SIZE ◄─► AUDIO ◄─► FEATURES ◄─► FACTORY DEFAULT

The PICTURE Menu screen will appear.

3 Press ▲ or ▼ to select "Tint".

```
PICTURE
Contrast              0
Brightness            0
Color                 0
Tint                  0
Sharpness             0
Picture Mode
              Dynamic
Color Temp.
              Standard
User Color Temp.
Noise Reduction
                  Off
MENU quit
ENTER next
```

"Tint" selected in the PICTURE Menu screen (Video Input Mode)

4 Press ENTER.

The "Tint" adjustment screen will appear.

5 Press ◄ or ► to change tint values.

► : More greenish tint

◄ : More purplish tint

```
Tint  _____    0
<> adjust
```

"Tint" adjustment screen

6 Press ENTER to store.

Press MENU when you finish.

* Repeat steps 3, 4, 5, and 6 when you wish to make changes to other options.

* You can also use the switches on the display's control panel to accomplish these steps.

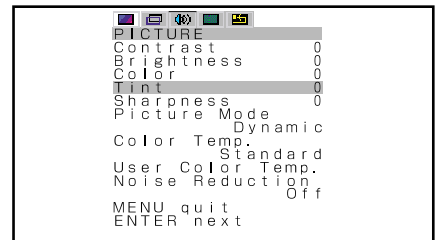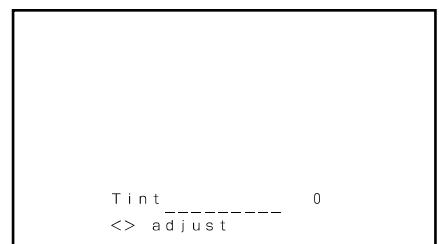* On-screen information disappears if you do not take any action for about 60 seconds.
* The following abbreviations used in this document represent input modes in which you can make adjustments:
  Ⓥ: Video mode, Ⓢ: S-video mode, Ⓒ: Comp.video mode, Ⓡ: RGB mode

• **Adjusting Contrast (Contrast)** 　　　　　　　　V S C R

Any value between -30 and +30 can be selected.

　　　▶: Higher contrast
　　　◀: Lower contrast

Press ⟨ENTER⟩ to store.

• **Adjusting Screen Brightness (Brightness)** 　　V S C R

Any value between -60 and +60 can be selected.

　　　▶: Brighter screen
　　　◀: Darker screen

Press ⟨ENTER⟩ to store.

• **Adjusting Color Darkness (Color)** 　　　　　　V S C R

Any value between -60 and +60 can be selected.

　　　▶: Darker colors
　　　◀: Lighter colors

Press ⟨ENTER⟩ to store.

• **Adjusting Tint (Tint)** 　　　　　　　　　　　V S C R

Any value between -30 and +30 for [V S], and -60 and +60 for [C R] can be selected.

　　　▶: More greenish tint
　　　◀: More purplish tint

Press ⟨ENTER⟩ to store.

• **Adjusting picture Sharpness (Sharpness)** 　　V S C R

Any value between -16 and +16 for [V S C R (RGB-Video,Decoder)], and -4 and +4 for [R(RGB-PC)], can be selected.

　　　▶: Sharper pictures
　　　◀: Less sharp pictures

Press ⟨ENTER⟩ to store.

• **Setting Picture Mode (Picture Mode)** 　　　　V S C R

Can set up the picture mode.

Each time you press ◀ or ▶, one of the available choices appears in the following sequence:

```
┌─►Dynamic ◄─► Fine ◄─► Real1 ◄─► Real2 ◄─► Static ◄─┐
└──────────────────────────────────────────────────────┘
```

Dinamic: Suitable for watching a normal motion picture.(Standard)
Fine:　　Suitable for watching a dark picture such as movie.
Real 1:　Makes a strong contrast picture.
Real 2:　Makes a bright color picture.
Static:　Suitable for watching a still picture.

Press ⟨ENTER⟩ to store.

*Select Dinamic, Fine, Real 1, Real 2 or Static to suit your taste.

• **Adjusting Color Temperature (Color Temp.)** 　V S C R

Use ◀ or ▶ to specify a desired color temperature. Each time you press ◀ or ▶, one of the available choices appears in the following sequence:

```
┌─► Warm ◄─► Standard ◄─► Cool ◄─► User ◄─┐
└──────────────────────────────────────────┘
```

Warm:　　More reddish colors
Standard: Standard color temperature
Cool:　　More bluish colors
User:　　User Color Temp. setup

Press ⟨ENTER⟩ to store.

• **Setting User Color Temp. (User Color Temp.)** 　V S C R

Can set up when User is selected in Color Temp.

Press ▲ or ▼ to select Red, Green or Blue and press ◀ or ▶ to make adjustment in the range of 0 to 255.

Press ⟨ENTER⟩ to store.

* Color Temp. setup is switched to User. The initial value of User Color Temp. is adjusted individually at the factory.

• **Setting Noise Reduction (Noise Reduction)** 　　V S C

Can select the noise reduction setting corresponding to the noise level of the input signal.

Each time you press ◀ or ▶ ,one of the available choices appears in the following sequence:

```
┌─► Off ◄─► Min. ◄─► Std. ◄─► Max. ◄─┐
└──────────────────────────────────────┘
```
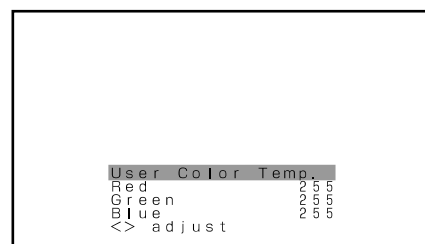
Off:　　Noise reduction does not function.
Min.:　Weak noise reduction setting.
Std.:　Standard noise reduction setting.
Max.:　Strong noise reduction setting.

Press ⟨ENTER⟩ to store.

*Some type of signal can not be selected.

```
┌──────────────────────────────────┐
│                                  │
│                                  │
│                                  │
│                                  │
│  User  Color  Temp.              │
│  Red                    2 5 5    │
│  Green                  2 5 5    │
│  Blue                   2 5 5    │
│  <> adjust                       │
└──────────────────────────────────┘
```
User Color Temp.adjustment screen

E-27

ADJUSTING SCREEN POSITION AND SIZE (POSITION/SIZE MENU)

BASIC OPERATION [EX.: ADJUSTING HORIZONTAL DIRECTION OF SCREEN POSITION]

You can make changes to all screen adjustment options in the POSITION/SIZE Menu.
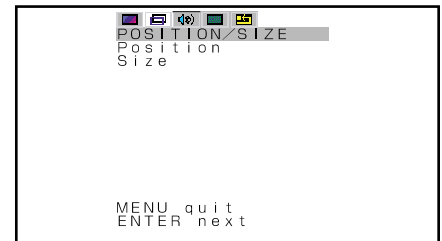
The changes you make will be stored for the selected input mode. Therefore, you need to select a desired input mode before making any changes.

1 Press **MENU**.
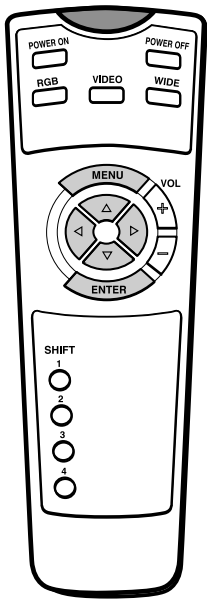
The main menu screen will appear.

2 Press ◄ or ► to select **"POSITION/SIZE"**.

Each time you press ◄ or ►, one of the available menus appears in the following sequence:

PICTURE ◄—► POSITION/SIZE ◄—► AUDIO ◄—► FEATURES ◄—► FACTORY DEFAULT

The POSITION/SIZE Menu screen will appear.

```
POSITION/SIZE
Position
Size




MENU quit
ENTER next
```
"POSITION/SIZE" selected from the main menu screen

3 Press ▲ or ▼ to select **"Position"**.

4 Press **ENTER**.

The "Position" adjustment screen will appear.

* You can also use the switches on the display's control panel to accomplish these steps.

5 Press ▲ or ▼ to select **"Horizontal" values of screen position.**

6 Press **ENTER**.

The "Horizontal" adjustment screen will appear.
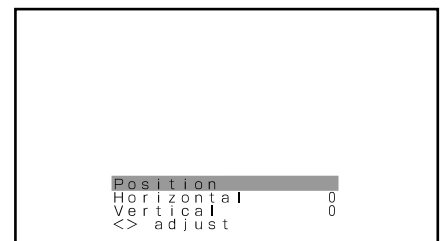
```
Position
Horizontal          0
Vertical            0
<> adjust
```
"Position" adjustment screen

7 Press ◄ or ► to change **horizontal values.**
► : Moves screen to the right.
◄ : Moves screen to the left.

8 Press **ENTER** to store.

Press **MENU** when you finish.

* Repeat steps 3 to 8 when you wish to make changes to other options.

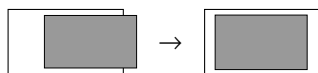**E-28**

Adjusting Screen Position (Position)   Ⓥ Ⓢ Ⓒ Ⓡ

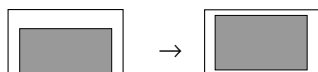Horizontal position (Horizontal)

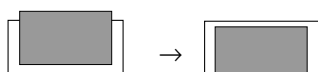▶ : Moves screen to the right.

◀ : Moves screen to the left.

Vertical position (Vertical)

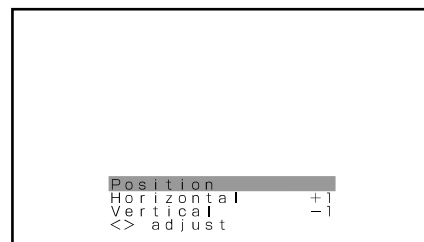▲ : Moves screen up.

▼ : Moves screen down.

Press ◀ENTER▶ to store.

```
Position
Horizontal        +1
Vertical          −1
<> adjust
```
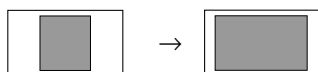
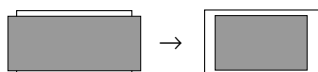"Position" adjustment screen

Adjusting Screen Size (Size)   Ⓥ Ⓢ Ⓒ Ⓡ

Screen width (Width)

▶ : Increases width.

◀ : Reduces width.

Screen height (Height)

▲ : Increases height.

▼ : Reduces height.

```
Size
Width             +1
Height            −1
<> adjust
```
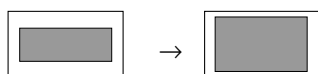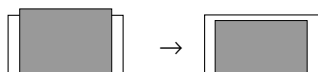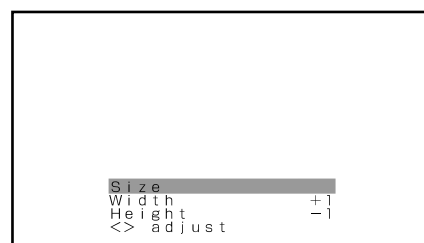
"Size" adjustment screen

Press ◀ENTER▶ to store.

*You cannot adjust screen size in RGB1 (DVI-D) mode.

Setting Range

	Video, S-video mode	Comp.video mode	RGB mode

Position	Horizontal: -30 to +30
	Vertical
	  Zoom: -15 to +15
	  Others: -7 to +7
		-16 to +16
		-32 to +32 (for1080I,720P)
			RGB-PC: -150 to +150
			RGB-Video, Decoder: -16 to +16
			  -32 to +32 (for1080I,720P)

Size	-7 to +7	-4 to +4	RGB-PC: -25 to +50 RGB-Video, Decoder: -4 to +4

* On-screen information disappears if you do not take any action for about 60 seconds.
* The following abbreviations used in this document represent input modes in which you can make adjustments:
  Ⓥ: Video mode, Ⓢ: S-video mode, Ⓒ: Comp.video mode, Ⓡ: RGB mode

E-29

ADJUSTING AUDIO (AUDIO MENU)

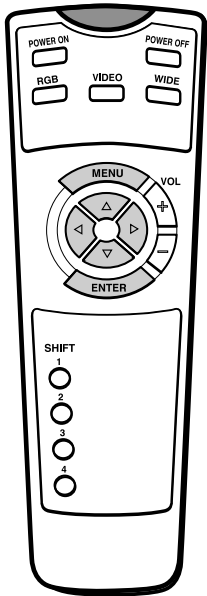## BASIC OPERATION [EX.: ADJUSTING VOLUME BALANCE (Balance)]

You can make changes to all sound adjustment options in the AUDIO Menu.

The changes you make will be stored for the selected input mode. Therefore, you need to select a desired input mode before making any changes.

1 Press MENU.

The main menu screen will appear.

```
AUDIO
Treble          0
Bass            0
Balance         0
Loudness       On




MENU  quit
ENTER next
```
"AUDIO" selected in the main menu screen

2 Press ◄ or ► to select "AUDIO".

Each time you press ◄ or ►, one of the available menus appears in the following sequence:

PICTURE ◄—► POSITION/SIZE ◄—► AUDIO ◄—► FEATURES ◄—► FACTORY DEFAULT

The AUDIO Menu screen will appear.

3 Press ▲ or ▼ to select "Balance".
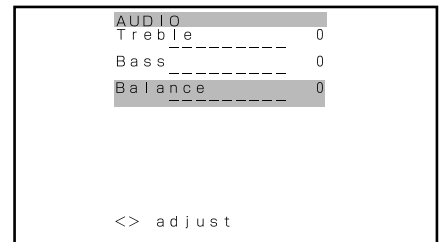
```
AUDIO
Treble  _____  0
Bass    _____  0
Balance _____  0


<>  adjust
```
"Balance" selected in the AUDIO Menu screen

4 Press ENTER.

The "Balance" adjustment screen will appear.

5 Press ◄ or ► to adjust the balance.

►: Higher volume from the right-hand speaker

◄: Higher volume from the left-hand speaker

6 Press ENTER to store.

Press MENU when you finish.

* Repeat steps 3 to 6 when you wish to make changes to other options.

* Audio Input menu will not be displayed when "No Audio" is selected. (See P. E-37.)

* You can also use the switches on the display's control panel to accomplish these steps.

E-30

Adjusting Treble (Treble)   Each audio input

Any value between -6 and +6 can be selected.

◀: Stronger treble

◀: Weaker treble

Adjusting Bass (Bass)   Each audio input

Any value between -6 and +6 can be selected.

◀: Stronger bass

◀: Weaker bass

```
A U D I O
T r e b l e  _ _ _ _ _ _ _ _    0
B a s s  _ _ _ _ _ _ _ _    0
B a l a n c e  _ _ _ _ _ _ _    0



            < >  a d j u s t
```
"Treble" selected in the AUDIO Menu screen

Adjusting Volume Balance (Balance)   Each audio input

Any value between -10 and +10 can be selected.

◀: Higher volume from the right-hand speaker

◀: Higher volume from the left-hand speaker

Setting Loudness (Loudness)   Each audio input

Corrects the balance between bass and treble for easy listening even with weak volume.

Each time you press ◀ or ◀, one of the available choices appears in the following sequence:

On ◀→ Off

On : Corrects bass and treble.

Off : Loudness dose not function.
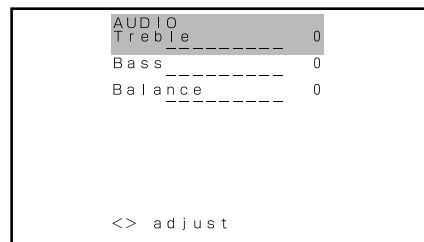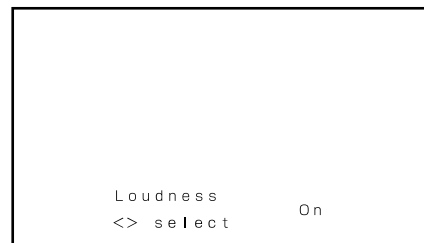
```
      L o u d n e s s
                       O n
      < >  s e l e c t
```
"Loudness" selection screen

---

* On-screen information disappears if you do not take any action for about 60 seconds.
* The following abbreviations used in this document represent input modes in which you can make adjustments:
Ⓥ: Video mode, Ⓢ: S-video mode, Ⓒ: Comp.video mode, Ⓡ: RGB mode

E-31

OTHER ADJUSTMENTS (FEATURES MENU)

BASIC OPERATION [EX.: SELECTING LANGUAGE (Language)]

You can make the following changes in the FEATURES Menu.

1 Press MENU .

The main menu screen will appear.

```
FEATURES
Adjustment
Function
On Screen Menu
Input Terminal
Others

More adjustment
items included
in this menu.


MENU quit
ENTER next
```

"FEATURES" selected in the main menu screen

2 Press ◄ or ► to select "FEATURES".

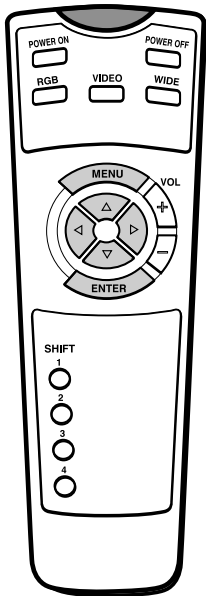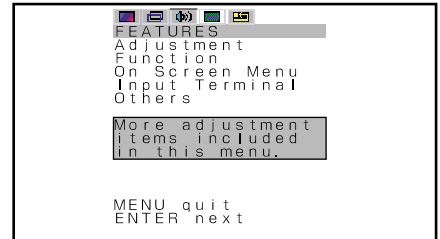Each time you press ◄ or ►, one of the available menus appears in the following sequence:

PICTURE ◄──► POSITION/SIZE ◄──► AUDIO ◄──► FEATURES ◄──► FACTORY DEFAULT

The FEATURES Menu screen will appear.

3 Press ▲ or ▼ to select "On Screen Menu".

• Select a desired option for adjustment/setup from Adjustment, Function, On Screen Menu, Input Terminal and Others.

```
On Screen Menu
OSD              On
Language          ⌐




ENTER apply
```
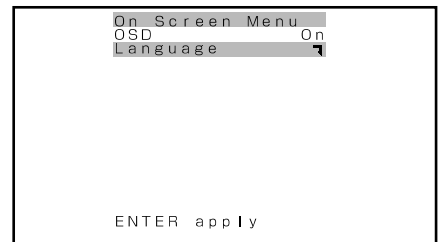
On Screen Menu screen

4 Press ENTER .

• On Screen Menu appears.

5 Press ▲ or ▼ to select "Language".

6 Press ENTER .

The "Language" selection screen will appear.

```
Language
English
Deutsch
Español
Francais
Italiano
Portugués



ENTER apply
```

"Language" selection screen

7 Press ▲ or ▼ to select the language.

8 Press ENTER .

The menu is displayed in the selected language.

Press MENU when you finish.

* Repeat steps 3 to 8 when you wish to make changes to other options.

* You can also use the switches on the display's control panel to accomplish these steps.

E-32

- **FEATURES setup screen has the following 5 options.**

  Adjustment   : Can make a fine adjustment of pictures such as Dot Clock, Clamp Position.

  Function   : Can make a function setting such as 24 Frame Mode, 3D Y/C. (See P. E-34.)

  On Screen Menu : Can make a display setting such as OSD, Language. (See P. E-34.)

  Input Terminal   : Can make an input terminal setting such as Video Input. (See P. E-35–E-36.)

  Others   : Can make other settings. (See P. E-36–E-40.)

ADJUSTMENT

- **Adjusting Dot Clock (Dot Clock)**   R

  You may find that pictures blur, depending on the clock frequency of your PC's processor.

  If you experience blurring, you can obtain a clearer picture by adjusting the "Dot Clock".

  Use ◄ or ► to select a value between -60 and +60.

  Press ENTER to store.

- **Adjusting Clock Phase (Clock Phase)**   R

  You may find that pictures blur, depending on the clock phase of your PC's processor. If you experience blurring, you can obtain a clearer picture by adjusting the "Clock Phase".

  Use ▲ or ▼ to select "Auto" or "Manual".

      Auto: Makes automatic adjustment.

      Manual: Makes manual adjustment.

                Use ◄ or ► to specify a value between 1 and 32.

  Press ENTER to store.
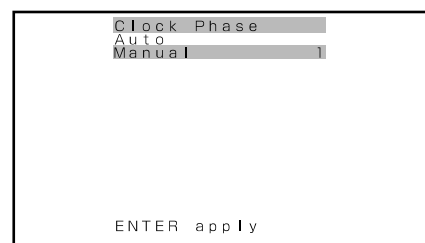
```
Clock Phase
Auto
Manual            1




ENTER apply
```
When selecting Manual by Clock Phase

- **Eliminating Flicker (Vertical Sync)**   R

  Corrects the vertical synchronization signal timing to eliminate vertical flicker.

  Use ◄ or ► to specify a value between -1 and +1.

  Press ENTER to store.

  *Some type of signal can not be selected.

- **Adjusting Clamp Position (Clamp Position)**   C   R

  Adjusts clamp pulse in accordance with the input signal received from connected equipment.

  Use ◄ or ► to specify a value between -8 and 8.

  Press ENTER to store.

- **Selecting the Optimum Dynamic Range of Images (Auto Calibration)**   R

  Receives a white screen signal and adjusts the dynamic range of images to the optimum.

  (1) Select Auto Calibration and press ENTER.

      Auto Calibration screen appears.

  (2) Select Execute and press ENTER.

      Press ▲ or ▼ to select Yes or No.

      Yes: Stores the data of Auto Calibration.

      No: Disables the execution result of Auto Calibration.

  (3) Press ENTER to execute.
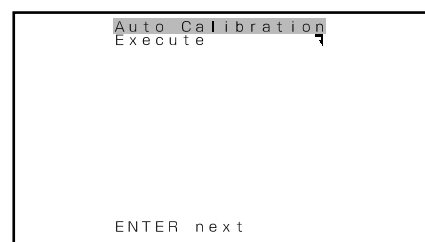
```
Auto Calibration
Execute




ENTER next
```
"Auto Calibration" setting screen
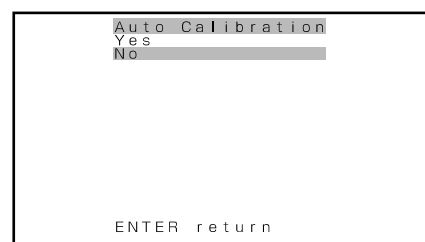
```
Auto Calibration
Yes
No




ENTER return
```
"Yes/No" screen to select

---

* On-screen information disappears if you do not take any action for about 60 seconds.

* The following abbreviations used in this document represent input modes in which you can make adjustments:

  V: Video mode, S: S-video mode, C: Comp.video mode, R: RGB mode

FUNCTION

• **Displaying the optimum movie pictures (24 Frame Mode)** ⓥ ⓢ ⓒ

Can make the optimum display of 24 frames/second signals such as movie pictures.

Each time you press ⬧ or ⬧, one of the available choices appears in the following sequence:

On ◄──► Off

On : Displays the optimum movie pictures.
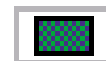
Off : Displays normal pictures.

Press ⟨ENTER⟩ to store.

*Some type of signal can not be selected.

• **Setting 3D Y/C Circuit (3D Y/C)** ⓥ

Clear and distinct pictures can be displayed without color blotting.

Each time you press ⬧ or ⬧, one of the available choices appears in the following sequence:

On ◄──► Off

On : Set to On normally. Enables the 3D Y/C circuit.

You can make this selection only for NTSC signal.

   Off : The 3D Y/C circuit can not be used. Set to Off when the moving pictures look unnatural.

Press ⟨ENTER⟩ to store.

* Can be set only when receiving NTSC signal.

   Set to On normally. Set to Off when the moving pictures look unnatural.

ON SCREEN MENU

• **Setting Display Information (OSD)** **All modes**

You can use this option to select whether to display information other than menus. (Error messages are displayed regardless of what choice you make for this option.)

Each time you press , one of the available choices appears in the following sequence:

On ◄──► Off

On : Displays all information.

Off : Displays only menus and error messages.

Press ⟨ENTER⟩ to store.

• **Selecting Language (Language)** **All modes**

You can use this option to select the language displayed on the screen.

(1) Select "Language" and press ⟨ENTER⟩ .

The "Language" selection screen will appear.

(2) Press ▲ or ▼ to select your desired language.

English

Deutsch (German)

Español (Spanish)

Français (French)

Italiano   (Italian)

Português (Portuguese)

(3) Press ⟨ENTER⟩ .

The menu is displayed in the selected language.

```
Language
English
Deutsch
Español
Français
Italiano
Português




      ENTER  apply
```

"Language" selection screen

E-34

INPUT TERMINAL

• **Selecting Video Mode (Video Input)**   Ⅴ

You can use this option to select the desired video mode of pictures it will receive to the Video Input terminal.

Each time you press ◄ or ►, one of the available modes appears in the following sequence:

→Auto◄►NTSC◄►PAL◄►SECAM◄►PAL60◄►N-PAL◄►M-PAL◄►4.43NTSC◄

　　Auto:　　　　　Automatically selects NTSC, PAL and SECAM.
　　Other than Auto: You need to select a system appropriate to the input signal.

Press ◄ENTER► to store.

• **Selecting Video Mode (S-video Input)**   Ⓢ

You can use this option to select the desired video mode of pictures it will receive to S-video Input terminal.

Each time you press ◄ or ►, one of the available modes appears in the following sequence:

→Auto◄►NTSC◄►PAL◄►SECAM◄►PAL60◄►N-PAL◄►M-PAL◄►4.43NTSC◄

　　Auto:　　　　　Automatically selects NTSC, PAL and SECAM.
　　Other than Auto: You need to select a system appropriate to the input signal.

Press ◄ENTER► to store.

• **Selecting BNC Input (BNC-Input)**   **All modes**

You can use this option to select the signal system it will receive to BNC Input terminal.

(1) Select BNC Input and press ◄ENTER►.

　　BNC Input screen appears.

(2) Select the signal system to receive.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

→Comp.video◄►RGB-Video◄►RGB-PC◄►Decoder◄

　　Comp.video:　For using color difference input.

　　RGB-Video:　For using 0.3V input of sync. signal level with RGB signal input.

　　　　　　　　(RGB-Video is used only for 61" type.)

　　RGB-PC:　　For using PC wih RGB signal input.

　　Decoder:　　For using decoder with RGB signal input.

(3) Press ▲ or ▼ to select Mask.

(4) Select Comp.video, RGB-Video or Decoder by FUNCTION to set up Mask.

Each time you press ◄ or ►, one of the available choices appears in the following sequence:

→Off◄►5◄►10◄►15◄

　　Off:　　Does not mask.

　　Number:Masks the fringe (top, bottom, right and left) of the screen by the number of pixels specified.

(5) Press ◄ENTER► to store.
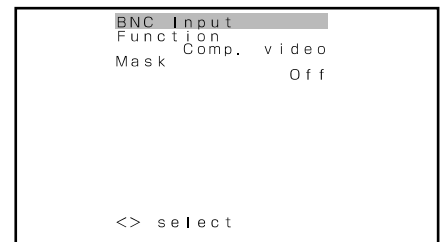
```
BNC Input
Function
        Comp. video
Mask
                Off




    <> select
```
"BNC-Input" selection screen
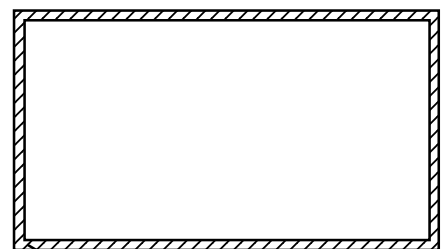
This fringe part is masked.

---

* On-screen information disappears if you do not take any action for about 60 seconds.
* The following abbreviations used in this document represent input modes in which you can make adjustments:
　Ⅴ: Video mode, Ⓢ: S-video mode, Ⓒ: Comp.video mode, Ⓡ: RGB mode

E-35

OTHER ADJUSTMENTS (FEATURES MENU)(Continued)

INPUT TERMINAL

• **Selecting D-SUB Input (D-SUB Input)**   **All modes**

You can use this option to select the signal system it will receive to D-SUB Input terminal.

(1) Select D-SUB Input and press ⟨ENTER⟩.

   D-SUB Input screen appears.

(2) Select the signal system to receive.

   Each time you press ◄ or ►, one of the available choices appears in the following sequence:

   RGB-PC ◄──► Decoder

   RGB-PC: For using RGB for PC

   Decoder: For using digital broadcast tuner

(3) Press ▲ or ▼ to select Mask.

(4) Select Decoder by FUNCTION to set up Mask.

   Each time you press ◄ or ►, one of the available choices appears in the following sequence:

   ┌─► Off ◄─► 5 ◄─► 10 ◄─► 15 ◄─┐

   Off: Does not mask.

   Number: Masks the fringe (top, bottom, right and left) of the screen by the number of pixels specified.

(5) Press ⟨ENTER⟩ to store.
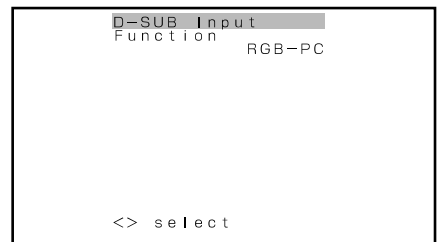
```
D-SUB Input
Function        RGB-PC




<> select
```
"D-SUB Input" selection screen
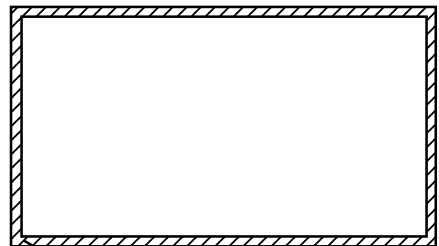
This fringe part is masked.

OTHERS MENU

• **Storing the setting of PICTURE (Picture Memry)**   **All modes**

Stores 8 patterns of adjustments set by PICTURE.
Read out and store to suit your taste.

In case of "Load"

When setting "Load": Read out your desired Setting.

(1) Select "Picture Memory" and press ⟨ENTER⟩.

   The "Picture Memory" screen will appear.

(2) Press ▲ or ▼ to select Load.

(3) Select Data number to make Load.

(4) Press ⟨ENTER⟩ to read out.

In case of "Save"

When setting "Save": Set to suit your taste and store.

(1) Select "Picture Memory" and press ⟨ENTER⟩.

   The "Picture Memory" screen will appear.

(2) Press ▲ or ▼ to select Save.

(3) Select Data number to make Save.

(4) Press ⟨ENTER⟩ to save.

```
Picture Memory
Load
Save




ENTER next
```
"Picture Memory" selection screen
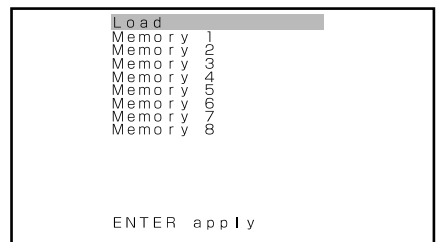
```
Load
Memory 1
Memory 2
Memory 3
Memory 4
Memory 5
Memory 6
Memory 7
Memory 8


ENTER apply
```
"Load" selection screen

• **Selecting time before DPMS starts (DPMS)**　　　　**All modes**

You can use this option to select the amount of time before the DPMS function starts.

DPMS (which stands for "display power management signaling") allows the display to maintain an automatic power saving function.

This function causes on-screen information to disappear until the next input operation, if the power is ON and the display has not received any signals for the predetermined period of time. When DPMS is active, the power indicator lamp turns orange.

```
DPMS
Time          Off
Background
              Black




     <>  select
```

DPMS selection screen

(1) Select DPMS and press ⬦ENTER⬦.

　　DPMS screen appears.

(2) Press ⬦ or ⬦ to select Time.

(3) Each time you press ⬦ or ⬦, one of the available choices appears in the following sequence:

　　Off ⟷ 1min.⟷15min.⟷ 45min.⟷ 60min.

　　Off:　　Disables DPMS

　　Number:　Approximate time before DPMS starts. (Unit: minutes)

* The power indicator lamp turns orange while the DPMS is ON.

* The power turns ON automatically when the display receives a signal.

(4) Can specify background color.

　　Press ⬦ or ⬦ to select background color.

　　Each time you press ⬦ or ⬦, one of the available choices appears in the following sequence:

　　Black⟷ White

　　Black: Mutes images in Black background.

　　White: Mutes images in White background.

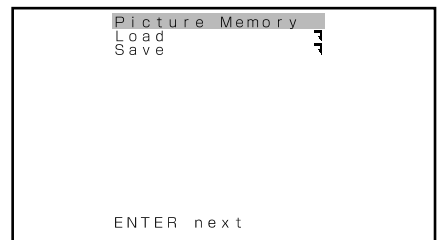* Switches approx. 20 seconds after the display stops receiving signals.

 (5) Press ⬦ENTER⬦ to store.

* DPMS does not function in RGB1 mode.

• **Selecting input terminals (Audio Input)**　　　　**All modes**

You can use this option to select one of the three available terminals to receive sound from input equipment.

```
Audio Input
RGB1          Audio2
RGB2          Audio2
RGB3          Audio2
Video         Audio1
S-video
              Audio1
Comp. video
              Audio1



     <>  select
```

"Audio Input" selection screen

(1) Select "Audio Input" and press ⬦ENTER⬦.

　　The "Audio Input" selection screen will appear.

(2) Press ⬦ or ⬦ to select input equipment.

(3) Select a desired input terminal.

　　Each time you press ⬦ or ⬦, one of the available choices appears in the following sequence:

　　No Audio ⟷Audio 1⟷ Audio 2 ⟷Audio 3

　　No audio: No sound in the corresponding mode.

　　Audio 1-3: Selects Audio 1 through 3 for receiving sound in the corresponding mode.

　　* Repeat steps (2) and (3) for each piece of input equipment.

(4) Press ⬦ENTER⬦ to store.

　　*Audio Input menu will not be displayed when "No Audio"is selected.
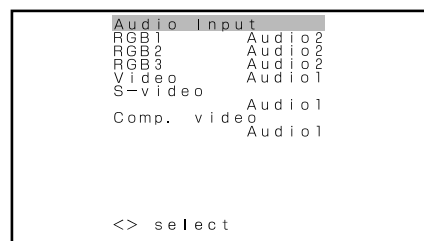
* On-screen information disappears if you do not take any action for about 60 seconds.

* The following abbreviations used in this document represent input modes in which you can make adjustments:

　V: Video mode, S: S-video mode, C: Comp.video mode, R: RGB mode

E-37

• **Minimizing phosphor burn-in (Screen Orbiter)**

You can use this option to move the screen position to minimize phosphor-induced "burn-in".

Follow the steps below.

(1) Select "Screen Orbiter" and press ⟨ENTER⟩.

The "Screen Orbiter" setting screen will appear.

(2) Press ⚫ or ⚫ to select "Mode/Time".

(3) Select a desired pattern.

Each time you press ⚫ or ⚫, one of the available choices appears in the following sequence:

```
┌→ Off ◄► Time ◄► Mode ◄┐
└──────────────────────┘
```

Off: Disables Screen Orbiter.

Time: Moves the pattern approximately every one hour.

Mode: Moves the pattern when the power is turned ON or when you switch between modes.

(4) Press ⚫ or ⚫ to select "Moving Area".

(5) Press ⚫ or ⚫ to select the range for moving the pattern.

Each time you press ⚫ or ⚫, one of the available choices appears in the following sequence:

```
┌→ Min. ◄► Std. ◄► Max.◄┐
└───────────────────────┘
```

Min.: Pattern moves in small range. (About 5 pixels)

Std.:   Pattern moves in moderate range. (About 10 pixels)

Max.: Pattern moves in wide range. (About 15 pixels)

(6) Press ⟨ENTER⟩ to store.

*When the Screen Orbiter function is operated in RGB1 mode, some letters at the top, bottom, right or left of the screen may be missed.

Ⓡ

```
┌─────────────────────────────┐
│ Screen Orbiter              │
│ Mode/Time                   │
│                    Off      │
│ Moving Area                 │
│                    Std.     │
│                             │
│                             │
│    <>  select               │
└─────────────────────────────┘
```
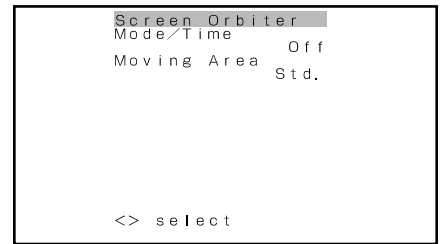
"Screen Orbiter" setting screen

Using screen protection functions (examples)

The screen protection functions minimize phosphor burn-in but cannot completely eliminate it.

When using the display occasionally	When using the display continuously

• Select a desired amount of time for "DPMS".
Thus, when the display does not receive a signal, it will automatically display white or black over the entire screen. When the predetermined time elapses, the power will turn OFF.
	When switching between RGB and video input modes only occasionally
	(1) Select "Time" for "Mode/Time" with "Screen Orbiter".
	(2) Select a desired range for "Moving Area" with "Screen Orbiter".
	    This causes the screen saver pattern to move in the same range at regular intervals.
	When switching between RGB and video input modes frequently
	(1) Select "Mode" for "Mode/Time" with "Screen Orbiter".
	(2) Select a desired range for "Moving Area" with "Screen Orbiter".
	    When the mode is switched from Video to RGB, the display position moves.

• **Input mode of priority (Input Priority)**   **All modes**

You can use this option to switch between modes only when a signal is received through the selected input mode terminal. You cannot switch the input mode.

Each time you press ⚫ or ⚫, one of the available choices appears in the following sequence:

```
┌→Off ◄►RGB2 ◄►RGB3 ◄►Video ◄► S-video ◄► Comp.video ◄┐
└─────────────────────────────────────────────────────┘
```

Off: Switches between modes normally.

Other modes: Displays pictures when a signal is received through the selected input mode terminal.

Press ⟨ENTER⟩ to store.

*RGB1 mode cannot be selected.

• **Assigning Numbers to Displays (Monitor No.)**　　　　**All modes**

When you use two or more displays, you can use a single remote control to control individual displays by assigning a unique number to each of the displays.

Each time you press ◀ or ▶, one of the available numbers appears in the following sequence:

　　　► 0 ◄►1 ◄►2 ◄►3 ◄►4 ◄

0:　You can normally control displays.
　　　You cannot control displays if you press any of [SHIFT 1] through [SHIFT 4].

1–4:　Allows you to control a desired display by pressing the corresponding button (one of [SHIFT 1] through [SHIFT 4]).

When you do not press any of the SHIFT buttons, you can control all displays.

Press ◆ENTER▶ to store.

* You can check the "Monitor No." on the Information screen. (See P. E-40.)

• **Setting RGB Input Signal Compulsorily (Direct Setting)**　　　Ⓡ

You can use this option to switch the setting for RGB input signal.

Each time you press ◀ or ▶, one of the available choices appears in the following sequence:

For RGB1 mode:

　　　►Auto◄►VGA◄►WVGA◄►XGA◄►WXGA◄

For RGB2.3 mode:

　　　►Auto◄►VGA◄►WVGA◄►480P◄►XGA◄►WXGA◄►SXGA◄►SXGA⁺◄

Auto:　The optimum display is obtained automatically for input signals.
Others:　The optimum resolution setting is fixed for each signal.

Press ◆ENTER▶ to store.

* In Auto mode, the resolution of VGA, WVGA, 480P, XGA, WXGA, SXGA and SXGA⁺ may not be automatically distinguished. Switch to the fixed display when the image is not displayed properly.

• **Specifying RGB Input Signal (Code Setting)**　　　Ⓡ

You can use this option to specify and display the type of RGB input signal by code number.

Each time you press ▲ or ▼, one of the available choices appears in the following sequence:

Auto ◄─► Manual

Auto:　Automatically displays the input signal to the optimum.
Manual: Selects RGB code number.

Press ◆ENTER▶ to store.

* In Auto mode, the optimum resolution may not be set up automatically depending on the type of signal.

Select the type of signal when the image is not displayed properly.

However, note that when the type of signal is selected directly, the signal of other resolution may not be displayed properly.
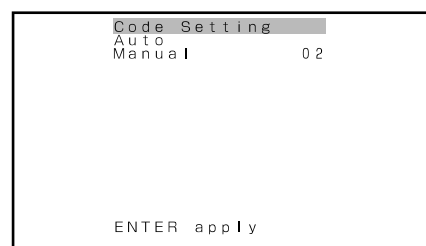
```
Code Setting
Auto
Manual            02




          ENTER apply
```
"Code Setting" setting screen

• **Displaying white over entire screen (White Screen)**　　　**All modes**

You can use this option to display white over the entire screen to minimize phosphor burn-in.

Each time you press ◀ or ▶, one of the available choices appears in the following sequence:

On ◄─► Off

Off:　Does not display white.
On:　Displays a white screen immediately.

Press ◆ENTER▶ to store.

* On-screen information disappears if you do not take any action for about 60 seconds.
* The following abbreviations used in this document represent input modes in which you can make adjustments:
Ⓥ: Video mode, Ⓢ: S-video mode, Ⓒ: Comp.video mode, Ⓡ: RGB mode

E-39

- **Setting Exhibition Mode (Exhibition Mode)**   **All modes**

    You can use this option to display the enhanced contrast, which is most suitable for the use by unspecified persons.

    Each time you press ◀ or ▶, one of the available choices appears in the following sequence:

    On ◀──▶ Off

      On: Sets up Exhibition mode.

      Off: Sets up normal mode.

    Press ◀ ENTER ▶ to store.

    * In Exhibition mode, the display returns to the original setting in about 5 minutes even if the adjustment is changed.

    * The setup will be cancelled when removing the power plug from the receptacle.

- **Horizontal/Vertical installation (Installation)**   **All modes**

    You can use this option to setup the number of fan rotation and the direction of display text of menu or other screen for horizontal and vertical installation.

    Each time you press ◀ or ▶, one of the available choices appears in the following sequence:

    ┌──┐
    │ ──▶ -90 Deg.◀─▶ Normal ◀─▶ +90 Deg.◀── │
    └──┘

    -90 Deg. : Displays text from left to right when the display is installed with the power indicator lamp at the top.

    Normal : Displays text normally.

    +90 Deg. : Displays text from left to right when the display is installed with the power indicator lamp at the bottom.

    Press ◀ ENTER ▶ to store.

    * Be sure to make this setup when changing the direction of installation.

- **Locking Main Unit Button (Key Lock)**   **All modes**

    You can use this option to disable the main unit button.

    Each time you press ◀ or ▶, one of the available choices appears in the following sequence:

    On ◀──▶ Off

      On: Disables the main unit button.

      Off: Enables the main unit button.

    Press ◀ ENTER ▶ to store.

- **Displaying System Status (Information)**   Ⓥ Ⓢ Ⓒ Ⓡ

    Displays system operation status.

    Select "Information" and press ◀ ENTER ▶.

    The "Information" screen will appear.

Mode:	Input mode
Monitor No.:	Monitor number
Freq. Scan Mode:	Frequency scanning
Input Signal:	Video mode
Input Sync.:	Signal type
Freq.:	Frequency and polarity (fH, fV)
Preset No.:	RGB code number
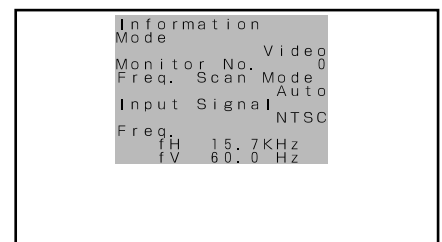
```
Information
Mode            Video
Monitor No.       0
Freq. Scan Mode
                Auto
Input Signal    NTSC
Freq.
    fH  15.7KHz
    fV  60.0 Hz
```
Information screen (Video Input Mode)
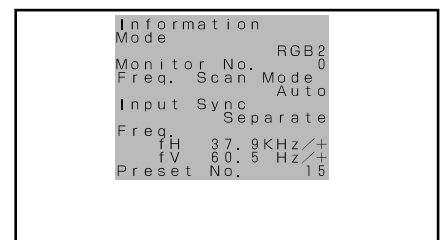
```
Information
Mode            RGB2
Monitor No.       0
Freq. Scan Mode
                Auto
Input Sync
            Separate
Freq.
    fH  37.9KHz/+
    fV  60.5 Hz/+
Preset No.       15
```
Information screen (RGB2 Input Mode)

* On-screen information disappears if you do not take any action for about 60 seconds.

* The following abbreviations used in this document represent input modes in which you can make adjustments:
   Ⓥ: Video mode, Ⓢ: S-video mode, Ⓒ: Comp.video mode, Ⓡ: RGB mode

INITIALIZATION OF USER ADJUSTMENT VALUE(FACTORY DEFAULT)

You can restore the values of the adjustment/setting made in the MENU to factory settings.
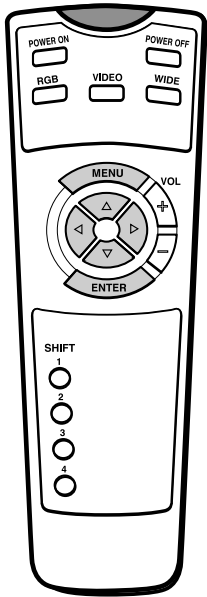
1 Press [MENU].

The main menu screen will appear.

```
FACTORY DEFAULT
Execute




MENU quit
ENTER next
```

"FACTORY DEFAULT" selected in the main menu screen

2 Press ◄ or ► to select "FACTORY DEFAULT".

Each time you press ◄ or ►, one of the available menus appears in the following sequence:

PICTURE ◄──► POSITION/SIZE ◄──► AUDIO ◄──► FEATURES ◄──► FACTORY DEFAULT

The FEATURES Menu screen will appear.

3 Press [ENTER].

• Displays the message of whether to proceed with the initialization.

```
FACTORY DEFAULT
Yes
No


Adjust and
Existing data
will be cleared.


ENTER apply
```

Displays the message of whether to proceed the initialization

4 Press ▲ or ▼ to select the Yes.

5 Press [ENTER].
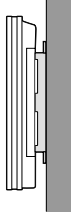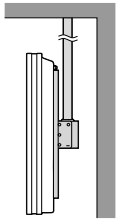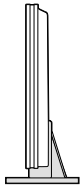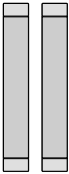
• The message of having completed the initialization will be displayed after initializing.

Press [MENU] when you finish.

```
FACTORY DEFAULT
Execute


Existing data
are cleared.


MENU quit
ENTER next
```

Displays the message of having completed the initialization

* You can also use the switches on the display's control panel to accomplish these steps.

OPTIONS

Wall-mounting unit (for horizontal)	Horizontal: 0° to 15° mounting angle	P-50WB01 (both 50" and 61")	
Hanging unit (for horizontal)	0° to 15° mounting angle (variable) The pipe is not supplied with the ceiling-hanging unit, so consult your produce dealer.	P-50CT01 (both 50" and 61")	
Stand (for horizontal)		P-50TT01 (both 50" and 61")	
Speaker		P-50SP01 (for 50") P-61SP01 (for 61") (1 set of 2 speakers)	
Speaker Stand		P-50ST01 (for 50") (1 set of 2 speakers stands)	

* When installing an option, make sure that all installation requirements for that option (as given in the relevant instruction manual) are met.

* The colors of options do not match the display colors perfectly.

Warning

To prevent injury, fire, and electric shock, arrange for options to be initially installed (or installed at a different location) by your dealer.

CAUTION: This display (PDS5003W/PDS5003U/PDS5004W/PDS5004U/PDS6101W) is for use only with Fujitsu General Limited's option (P-50WB01, P-50CT01, P-50TT01).
Using this display with other option can cause instability resulting in possible injury.

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FACTORY SETTINGS

This display can store the latest four types of signals for RGB adjustment value. The fifth input signal will replace the adjustment value of the first input signal.

To do this, select a desired signal and follow the instructions in "Adjusting Screen Position and Size" on P. E-28–E-29 to adjust the parameters. When you finish, the settings will be automatically stored. Thus, when the display receives that signal, pictures will be displayed in accordance with the settings you most recently selected.

Main corresponding signals (RGB mode)

Display (dots x lines)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal	DVI-D
640 x 480	31.47	59.94	VGA	◯
640 x 480	37.86	72.81	VGA 72 Hz	
640 x 480	37.50	75.00	VGA 75 Hz	
640 x 480	43.27	85.01	VGA 85 Hz	
720 x 400	31.47	70.09	400 lines	
800 x 600	37.88	60.32	SVGA 60 Hz	◯
800 x 600	48.08	72.19	SVGA 72 Hz	◯
800 x 600	46.88	75.00	SVGA 75 Hz	
800 x 600	53.67	85.06	SVGA 85 Hz	
1024 x 768	48.36	60.00	XGA 60 Hz	◯
1024 x 768	56.48	70.07	XGA 70 Hz	
1024 x 768	60.02	75.03	XGA 75 Hz	
1280 x 1024	63.98	60.02	SXGA 60 Hz	
1280 x 1024	79.98	75.03	SXGA 75 Hz	
1600 x 1200	75.00	60.00	UXGA 60 Hz	
1600 x 1200	93.75	75.00	UXGA 75 Hz	
1600 x 1200	106.25	85.00	UXGA 85 Hz	
640 x 480	35.00	66.67	MAC 13RGB	
848 x 480	31.02	60.00		◯
852 x 480	31.72	59.97		
720 x 485	15.73	59.94	60 fields	
720 x 575	15.63	50.00	50 fields	
640 x 400	31.50	70.15	NEC 31 kHz	

* With some input signals, "Out of range" may appear even when the horizontal and vertical frequencies are within their permissible ranges. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA/ UXGA, 75 Hz or less for XGA/ SXGA.

In the DVI-D mode, the input signal can be restricted partly.

In the Comp.video and Video/S-video modes, the display has been factory-set as follows for different input signals:

Main corresponding signals (Comp.video mode)

Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
15.73	59.94	SDTV 480I
15.63	50.00	SDTV 576I
31.47	59.94	SDTV 480P
31.25	50.00	SDTV 576P
45.00	60.00	HDTV 720P
37.50	50.00	HDTV 720P
33.75	60.00	HDTV 1080I
28.13	50.00	HDTV 1080I

Main corresponding signals (Video, S-video mode)

Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal
15.73	59.94	NTSC
15.63	50.00	PAL
15.63	50.00	SECAM
15.63	59.52	PAL60
15.63	50.00	N-PAL
15.73	59.95	M-PAL
15.73	59.94	4.43NTSC

- With the 1280 x 1024 and 1600 x 1200 modes, pictures of reduced size are displayed on the screen, using size reduction and interpolation. Note also that on-screen information is also displayed in reduced size.
- "Out of range" appears if the display receives a signal whose characteristic does not fall within the display's permissible range.
- You can check input signals through "Information" on the FEATURES Menu screen. (See P. E-40.)
- All terms (i.e., company and product names) used in this document are trademarks or registered trademarks.

SPECIFICATION

Model	PDS5003W/PDS5003U/PDS5004W/PDS5004U	PDS6101W
Screen size	50" wide screen: 110.6 cm (W) x 62.2 cm (H) (126.9 cm diagonal) 43.5 inch (W) x 24.5 inch (H) (50.0 inch diagonal)	61" wide screen: 135.1 cm (W) x 76.0 cm (H) (155.0 cm diagonal) 53.2 inch (W) x 29.9 inch (H) (61.0 inch diagonal)
Aspect ratio	16:9 (wide)	16:9 (wide)
Weight	45.0 kg / 99.2 lbs	61.0 kg / 134.5 lbs
Outer dimensions	121.2 (W) x 72.6 (H) x 9.8 (D) cm 47.7 (W) x 28.6 (H) x 3.9 (D) inch	145.2 (W) x 86.2 (H) x 11.9 (D) cm 57.1 (W) x 33.9 (H) x 4.7 (D) inch
Power supply	220–240 VAC 50/60 Hz (W type) 120 VAC 50/60 Hz (U type)	100–240 VAC 50/60 Hz
Current rating	2.7 A (W type) / 5.5A (U type)	7.5 A
Screen dimensions	110.6 (W) x 62.2 (H) cm 43.5 (W) x 24.5 (H) inch	135.1 (W) x 76.0 (H) cm 53.2 (W) x 29.9 (H) inch
Number of pixels	1366 (H) x 768 (V)	1365 (H) x 768 (V)
Display modes	Video, S-video input: Normal/Auto/Wide1/Wide2/Zoom1/Zoom2	
	Component video input: Normal/Wide1/Wide2/Zoom1/Zoom2	
	RGB: Normal/Wide/Zoom	
Colors	16.77 million	
External equipment terminals		
Video input terminals	Video input 1 BNC terminal 1 Vp-p/75 Ω	
	S-video input 1 S terminal Y: 1 Vp-p/75 Ω C: 0.286 Vp-p/75 Ω	
	Component video input (color difference input) 3 BNC terminals Y: 1 Vp-p/75 Ω P_B/B-Y: 0.7 Vp-p/75 Ω P_R/R-Y: 0.7 Vp-p/75 Ω	
Applicable systems	NTSC/PAL/SECAM/PAL60/N-PAL/M-PAL/4.43NTSC	

PC input terminal	RGB1 input 1 DVI-D terminal
	RGB2 input mD-sub, 3 rows, 15-pin
	                      Picture signal: 0.7 Vp-p/75 Ω
	                      Synchronization signal:TTL level
	RGB3 input 5 BNC terminals R:0.7 Vp-p/75 Ω
	                                     G:0.7 Vp-p/75 Ω
	                                     B:0.7 Vp-p/75 Ω
	                                     H:TTL /ANALOG (75 Ω)
	                                       V:TTL /ANALOG (75 Ω)	

Sound terminals	2 sound input pin jacks (L/R) (3 lines) 500 mVrms/at least 22kΩ	2 sound input pin jacks (L/R) (3 lines) 500 mVrms/at least 22kΩ
Control terminal	1 RS-232C connector (D-sub 9-pin)	
External speaker output terminal	Effective max. output: 8 W + 8 W (EIAJ), 6 Ω	Effective max. output: 20 W + 20 W (EIAJ), 4 Ω
Operating conditions	Temperature: 0 to 40 °C / 32 to 104 °F Humidity: 20 to 80 %	
Accessories	1 remote control, 2AA batteries, 1 instruction manual, 1 power cable, 2 big ferrite cores, 2 small ferrite cores	

- Specifications and external appearance may be change for the sake of improvement.
- **Plasmavision** is a worldwide trademark of Fujitsu General Limited and is a registered trademark in Japan, the U.S.A. and other countries or areas.

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Regulation --- PDS5003W

- EMC:FCC Part 15 Class A, ICES-003 Class A
- CE Safety: EN60065
  EMC: EN55022   1998, Class A
        EN61000-3-2   1995
        EN61000-3-3   1995
        EN55024   1998
        EN61000-4-2   1995
        EN61000-4-3   1996
        EN61000-4-4   1995
        EN61000-4-5   1995
        EN61000-4-6   1996
        EN61000-4-8   1993
        EN61000-4-11 1994
- AS Safety: IEC60065
  EMC: AS/NZS 3548

Regulation --- PDS5004W

- EMC:FCC Part 15 Class B, ICES-003 Class B
- CE Safety: EN60065
  EMC: EN55022   1998, Class B
        EN61000-3-2   1995
        EN61000-3-3   1995
        EN55024   1998
        EN61000-4-2   1995
        EN61000-4-3   1996
        EN61000-4-4   1995
        EN61000-4-5   1995
        EN61000-4-6   1996
        EN61000-4-8   1993
        EN61000-4-11 1994
- AS Safety: IEC60065
  EMC: AS/NZS 3548

Regulation --- PDS6101W

- UL, CSA   Safety: UL60950/CSA C22.2 No.60950
            EMC: FCC Part 15 Class A, ICES-003 Class A
- CE Safety: EN60950   1992, A1: 1993, A2: 1993, A3: 1995, A4: 1997
  EMC: EN55022   1998, Class A
        EN61000-3-2   1995
        EN61000-3-3   1995
        EN55024   1998
        EN61000-4-2   1995
        EN61000-4-3   1996
        EN61000-4-4   1995
        EN61000-4-5   1995
        EN61000-4-6   1996
        EN61000-4-8   1993
        EN61000-4-11 1994
- AS Safety: IEC60950 A1/A2/A3/A4
  EMC: AS/NZS 3548

Regulation --- PDS5003U/PDS5004U

- UL, CSA   Safety: UL6500,C-UL
  EMC:FCC Part 15 Class A, ICES-003 Class A (PDS5003U)
  EMC:FCC Part 15 Class B, ICES-003 Class B (PDS5004U)

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CLEANING AND MAINTENANCE

Precautions

Be sure to remove the power plug from the receptacle before cleaning the display.
Be sure not to clean the display using a cloth dampened with volatile solvents, such as benzene or thinner. Such solvents can harm the display's cabinet, the filter at the screen front, and the remote control. They can also cause paint to come off these sections.

Cleaning the Screen

Clean the screen gently with a soft cloth.
The screen surface is fragile. Never attempt to clean it with a hard material, press on it forcefully, or tap it.

Cleaning the Cabinet and Remote Control

Use a soft cloth for cleaning.
If the cabinet or remote control is heavily stained, soak a soft cloth in a mixture of water and detergent and squeeze it dry before wiping off the stains. Use a soft, dry cloth for final cleaning.
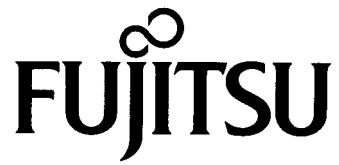
Cleaning the ventilation grille

Remove dust from the ventilation grille in the rear of the main unit periodically with a vacuum cleaner as the accumulated dust can increase the internal temperature of the main unit causing machine failure or fire hazard.

HANDY TIPS

In the event of problems with the display, check the following explanations before contacting your dealer for servicing.

Problem	Action
• Power does not turn ON.	• Check whether the power plug is securely inserted into the receptacle.
• No pictures are displayed.	• Check cables for disconnection. • Check whether the power for all input equipment is ON. • Check for connection to wrong terminals or for wrong input mode. • Check whether the input mode display is colored pink. Special setup may have been made. Return to original setup or initialize the User adjustment value.
• Remote control does not function properly.	• Check for incorrect battery orientation. • Check for dead batteries. • Check for distance from the display. • Check whether you are pointing the remote control transmitter properly at the display's receiver. • Check for any obstacle between the remote control and the display.
• The display makes a snapping sound.	• This sound is produced when the cabinet expands or contracts due to variations in temperature. This sound does not indicate that the display has a problem.
• The display makes a buzzing sound.	• The display has fans to maintain the temperature of internal components at a constant level. This sound is produced by the fan as it rotates.
• There are spots on the screen.	• Check whether your AV equipment is affected by interference from automobiles, trains, high-voltage transmission lines, neon signs or other potential sources of interference.
• Degraded colors/tints	• Check whether all picture adjustments have been properly made. (See "Adjusting Pictures" on P. E-26–E-27.)
• Improper screen position/size	• Check whether screen position and size have been properly adjusted. (See "Adjusting Screen Position and Size" on P. E-28–E-29.)
• No sound	• Check cables for disconnection. • Check whether you have selected "No Audio" for the "Audio Input" setting. (See "Features" on P. E-37.)
• If "Invalid operation" appears.	• Check whether you have selected "Input Priority".(See "Features" on P. E-38.)
• If "Out of range" appears, the display is receiving a signal whose picture or signal cannot be reproduced by the display. • The screen turns to black and white.	• Input proper signals. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA/ UXGA, 75 Hz or less for XVGA / SXGA.
• If "Error message Condition 1" appears, the fan is defective.	• Remove the power plug from the receptacle, and contact your dealer for repairs.
• If "Error message Condition 2" appears, the display's internal components are extremely hot.	• Remove the power plug from the receptacle. (You can turn the power back ON again when the components have cooled sufficiently.) If the message appears again when you turn the power back on, remove the power plug from the receptacle, and contact your dealer for a repairs.
• If "Change refresh rate to 60Hz"appears,	• The picture may get blurred with vertical frequency of other than 48.3-51.8 or 58.4-61.4 (Hz). Change the setting of your PC,etc.
• If the power indicator lamp flashes red.	• Remove the power plug from the receptacle, and inform your dealer about how the lamp flashed. As explained below, the power indicator lamp flashes differently depending on the type of problem: – Flashes repeatedly: Improper supply voltage level – Flashes once: Malfunction by the fan – Flashes twice: Excessive temperature – Flashes three times or more: Other problems

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