



Daga

# **USER'S MANUAL**

42"/50" WIDE PLASMA DISPLAY P42VHA10W/P42VHA10A/ P42HHA10W/P42HHA10A/ P50XHA10W/P50XHA10A/P50XHA10U/ P42VHA20W/P42VHA20A/P42VHA20U





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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

## **IMPORTANT INFORMATION**

## 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: 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.

**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.

# **FCC NOTICE**

#### • P42VHA10W/P50XHA10W: 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.

• P42VHA10A/P42HHA10W/P42HHA10A/P50XHA10A/P50XHA10U/P42VHA20W/P42VHA20A/P42VHA20U: 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 SAFETY INSTRUCTIONS**

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.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifier's) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.

- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, dose not operate normally, or has been dropped.
- 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 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.
- 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 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.
- 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 AC110–240 V (42"10W/A) and AC220–240 V (50"W/A, 42"20W/A type) and AC 120 V (U 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 (42″10W, 42″U, 50″U Type: Included)

AC 200–240 V (42"20W, 50"W Type: Included)



AC 240 V (SAA TYPE) (42"A, 50"A Type: Included)

## Variety of input signals

- The unit features four video and four S-video input terminals, and five component video terminals.
- In addition to mD-sub terminal, the display also supports input of digital RGB signal input enabling DVI standard (HDCP\*) high definition picture quality.
- 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.

## **Desired screen size**

- This display offers a total of five different screen sizes in video input mode: Normal, Wide1, Wide2, Zoom1, and Zoom2. A Normal mode is also available for displaying of normal-size (4:3 aspect ratio) pictures.
- The display has a Compose 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.

### **Picture quality**

- Pro-setting allows adjustment for even higher picture quality.
- Noise reduction function reduces noise to ensure clear pictures.
- A display suitable for such film materials as movie pictures can be made by 24 frame mode function.

## **Convenient power saving setting**

• When no video signal is input to the display or the remote control is not operated for a long time, this function automatically reduces the power consumption of the unit.

### Others

- The white screen and screen orbiter functions are available to minimize phosphor burn-in.
- 3 audio input terminals and 20W + 20W (42") / 12W + 12W (50") external speaker output terminal are available.

<sup>\*</sup> The HDCP (High-bandwidth Digital Content Protection) function ensures that high-vision digital contents (movies, etc.) provided with copy-guard protection can be displayed on the plasma display.

# **CHECKING ACCESSORIES**



One remote control Two AA batteries One user's manual One power cable

(42″10W, 42″20U, 50″U Type)



(42"20W, 50"W Type)



(42"A, 50"A Type)

# HANDY TIPS

- Viewing the screen constantly for extended periods can strain your eyes. Be sure to stay at a proper distance (at least 1.5 m or 5 feet (42")/ 1.9 m or 6.3 feet (50")) from the screen and to look occasionally away while working.
- Have the display inspected and cleaned by your dealer at regular intervals.
- 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-37–E-38.)
- 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 (P42H and P50H only).
- 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-45, or contact your dealer.

#### Information

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

Two small ferrite

cores

Two big ferrite cores

# INSTALLATION

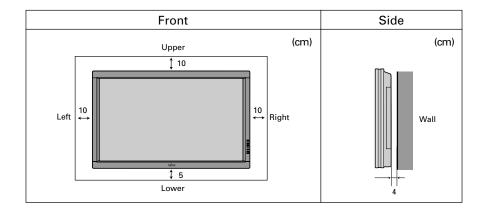
To prevent the display's internal components from overheating, make sure that the display is installed in a well-ventilated location. Be sure to use the optional stand, wall-mounting unit or the other unit when installing the display. Also, be also sure that your dealer performs the installation.

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

To prevent an accident and ensure safety in the event of an earthquake, fix the display securely into position as described below. 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, make sure that they run along the wall or through corners.
- \* The display can be installed with either of its sides facing down.



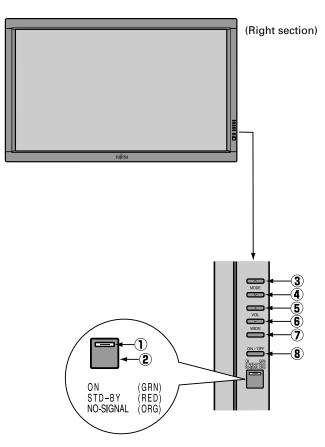
#### Note

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-40 for more information on options.

# **DISPLAY SECTION – FRONT**



**Control Panel (Right side of display)** 

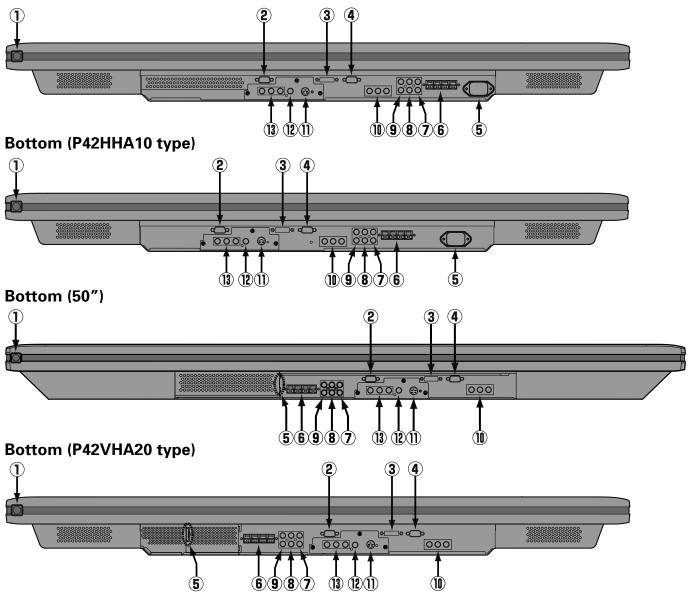
	This lamp shows th	he state of the power supply.
	Lit (red):	Stand-by
	Lit (green):	Power ON
	Lit (orange):	Power saving (DPMS: Power saving function) mode ON (See P. E-36.)
	Flashing (red):	Malfunction (Flashes differently depending on the type of malfunction. See P. E-45 for more information.)
2	Remote control	signal receiver
	Receives signals from	om the remote control.
3	Input mode sele	ctor button 🛦 [MODE]
4	Input mode sele	ctor button ▼ [MODE]
	Switches between j	picture input modes.
5	VOL + button	
6	VOL – button	
	Adjusts the sound	volume.
7	Wide screen sele	ector button [WIDE]
	Switches the screen	n over to a desired wide screen.
8	ON/OFF button	
	Turns the power "C	DN" and "OFF (standby state)".

## 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.

# **DISPLAY SECTION – LOWER PART**

## Bottom (P42VHA10 type)



#### ① Ů/I power switch

When pressed while in the "OFF" state, the power indicator lamp lights and the display is placed in the "ON O" state, and the power can be turned "ON" or "OFF" by the remote control or on the control panel of the display. When pressed while in the "ON O" state, the power indicator lamp goes out and the display is placed in the "OFF" state where power is still partly supplied.

#### ② 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.)

## ③ RGB1 input terminal (RGB1 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 RGB2 input terminal (RGB2 INPUT/mD-sub)

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

# Fower 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.)

- External speaker output terminal (EXT SP)
   Connect this terminal to the optionally available speaker.
   When connecting a cable, attach a ferrite core to the cable. (See P. E-13.)
   \*See the speaker instruction manual for more information.
- (7) Audio1 input terminal (AUDIO1 INPUT)
- 8 Audio2 input terminal (AUDIO2 INPUT)
- Audio3 input terminal (AUDIO3 INPUT)
   Connect this terminal to the sound output terminal of your VCR, etc. (See P.E-36 for the selection of audio input for video input.)
- Component video input terminal (VIDEO3 INPUT) Connect this terminal to the component video output (color difference output) terminal of your HDTV unit or DVD player.
- (f) **S-Video input terminal (VIDEO2 INPUT)** Connect this terminal to the S-video output terminal of your VCR.
- Wideo input terminal (VIDEO1 INPUT) Connect this terminal to the video output terminal of your VCR.
- (3) Component video input terminal (VIDEO4 INPUT) Connect this terminal to the component video output (color difference output) terminal of your HDTV unit or DVD player.

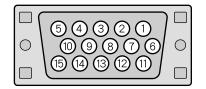
## **Description of Input Terminals**

DVI-D terminal (RGB1 INPUT/DVI-D)



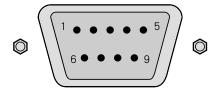
Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	T.M.D.S. Data2-	9	T.M.D.S. Data1 –	17	T.M.D.S. Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
4	_	12	—	20	—
5	_	13	—	21	—
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock 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)

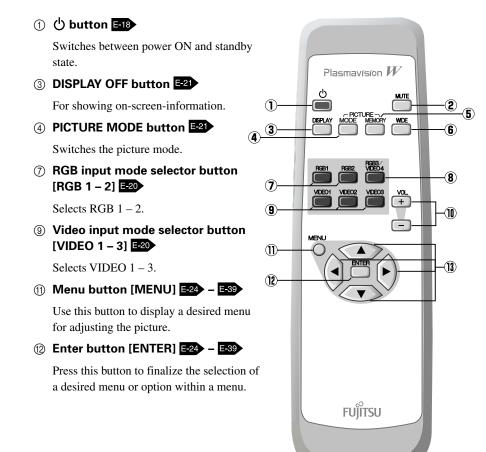


Pin No.	Signal
1	DCD (Data Carrier Detect)
2	RD (Received Data)
3	TD (Transmit Data)
4	DTR (Data Terminal ready)
5	GND (Ground)
6	DSR (Data Set Ready)
7	RTS (Request To send)
8	CTS (Clear To Send)
9	RI (Ring Indication)

# **PART NAMES AND FUNCTIONS (Continued)**

# **REMOTE CONTROL**

For details, see page



#### ② MUTE button E-19

Temporarily mutes the sound.

- ⑤ PICTURE MEMORY button E2 Recalls the PICTURE MEMORY.
- 6 WIDE button E22
  Switches the screen over to a desired wide screen.
- 8 RGB3/VIDEO4 input mode selector button [RGB3/VIDEO4] 520

Selects VIDEO4.

Wolume adjustment buttons [VOL +/-] =19

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

- Press the button to reduce the volume.
- (3) Adjustment buttons [ ◀ / ▶ / ▲ / ▼ ]
   E24 E39

Use these buttons to scroll through options in a menu.

# PUTTING BATTERIES IN THE REMOTE CONTROL



 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.

# 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.

**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.

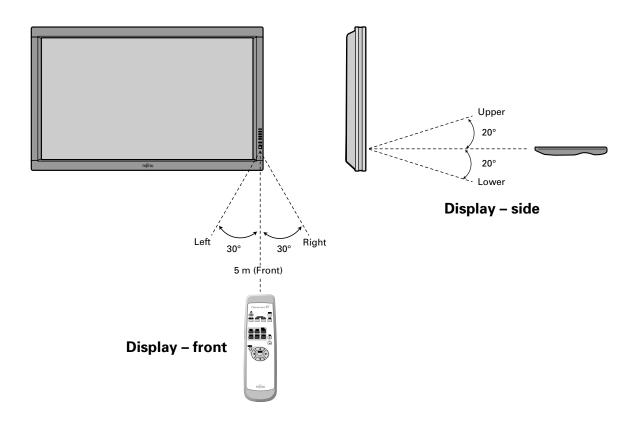
#### Note

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).

# **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.

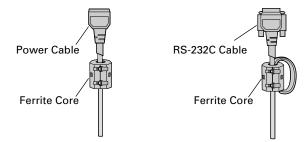
Loose connectors can result in picture or color problems. Make sure that all connectors are securely inserted into their terminals.

### **Ferrite cores**

These ferrite cores are used to attenuate undesired signals.

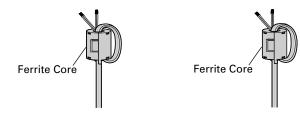
#### Two big ferrite cores

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

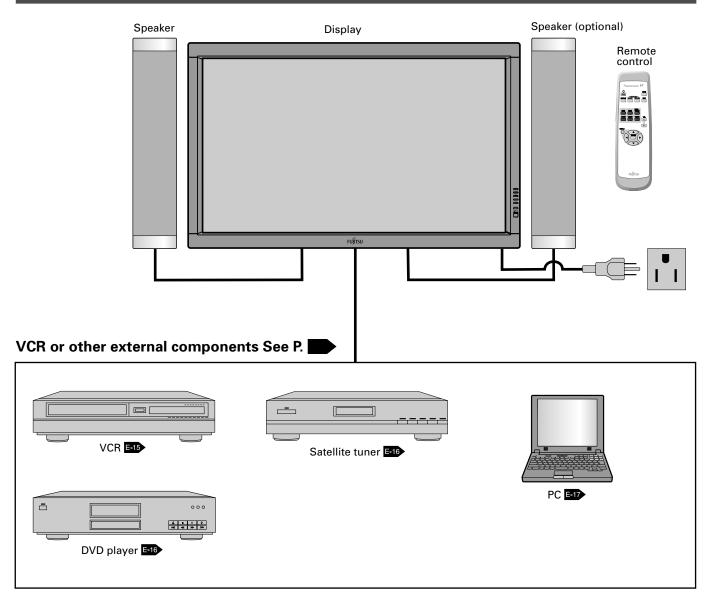


#### Two small ferrite cores

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

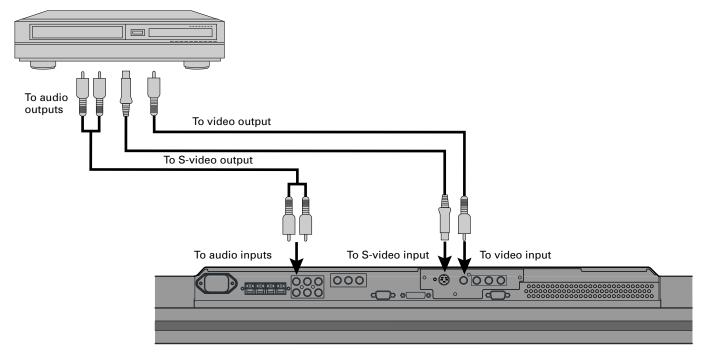


# **EXAMPLE OF CONNECTION TO EXTERNAL COMPONENTS**



# VCR

• Connect the video signal cable to either the S-video input terminal or the video input terminal.



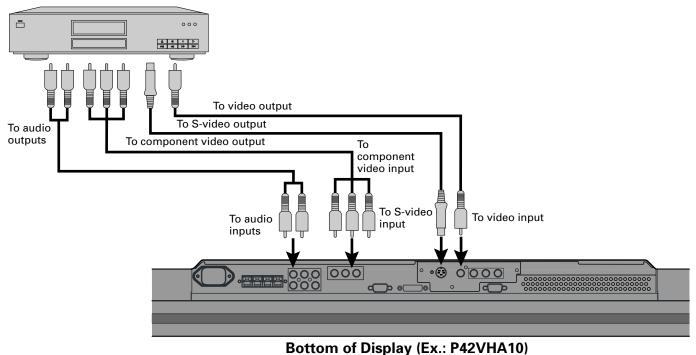
Bottom of Display (Ex.: P42VHA10)

### Note

- Unplug the power cord from the AC outlet before you connect external components.
- Also refer to the instructions for the component to be connected.
- When inputting audio, connect to the terminals corresponding to the used video input or RGB input.

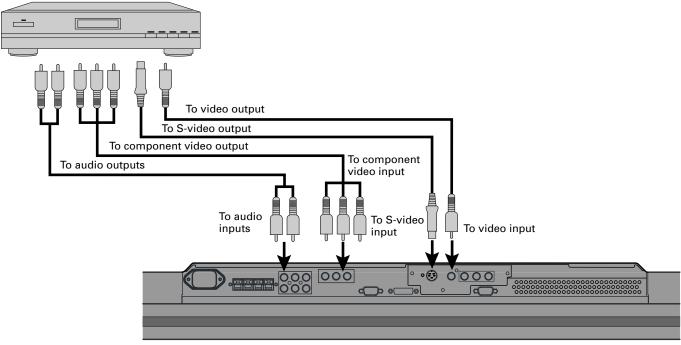
# **DVD PLAYER**

- Connect the video signal cable to the component video input terminal, S-video input terminal, or the video input terminal.
- If the component to be connected is equipped with component video output terminal, it is recommended to connect to the component video terminal.



# SATELLITE TUNER

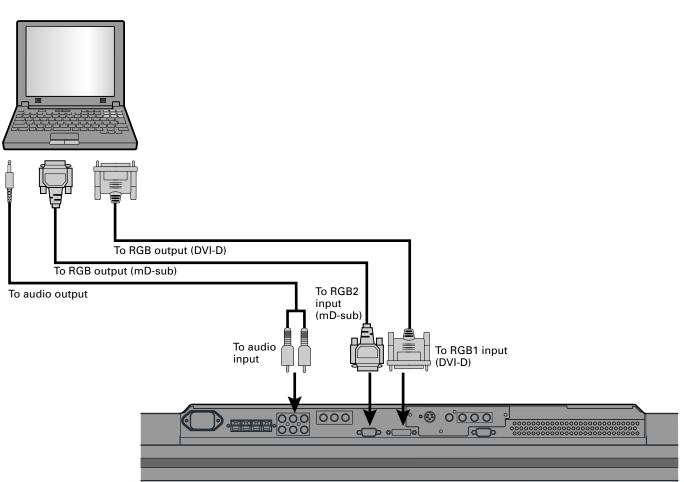
- Connect the video signal cable to the component video input terminal, S-video input terminal, or the video input terminal.
- If the component to be connected is equipped with component video output terminal, it is recommended to connect to the component video terminal.



Bottom of Display (Ex.: P42VHA10)

# PC

- As the cable for connecting a PC differs with the PC model, please consult your dealer for information on the right cable to purchase.
- The PC can be connected to either the front side or the rear side, whichever is most convenient.



Bottom of Display (Ex.: P42VHA10)

### Note

- Unplug the power cord from the AC outlet before you connect external components.
- Also refer to the instructions for the component to be connected.
- When inputting audio, connect to the terminals corresponding to the used video input or RGB input.

# **BASIC OPERATIONS**

# TURNING THE POWER ON AND OFF



Press  $\bigcirc$ /l to the left at the bottom of the display to the ON  $\bigcirc$  state. The power lamp lights up.

2

# Press on the remote control.

The color of the power lamp changes from "Red" to "Green".



Select the video mode to be input.

Press when the power is ON.

The color of the power lamp changes from "Green" to "Red" and the power turns "OFF".

\* You can also use the buttons on the display's control panel to perform these steps.

# **ADJUSTING THE VOLUME**

# $\underset{\text{VOL}}{\text{Press the Volume button}}$



Press - to reduce the volume.

Any value between 0 and 40 can be selected.

\* Note that the volume level remains stored even when you turn OFF the power.

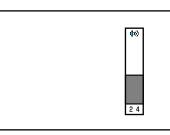
## Muting the sound

Press MUTE

The sound is removed.

Press again to restore the sound to the original level.

The mute mode can also be released by pressing the volume buttons.



When the volume adjustment button is pressed

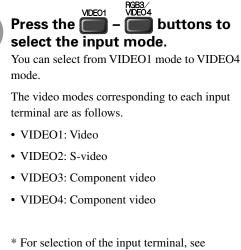
# **SELECTING INPUT MODE**

# **VIDEO INPUT MODE**



\* You can also use the buttons on the display's control panel to perform these steps.

## **RGB INPUT MODE**



\* For selection of the input terminal, see "SETTING THE INPUT TERMINALS" on P. E-35.

Videol

Video1 mode



You can select between the modes from RGB1 to RGB2.

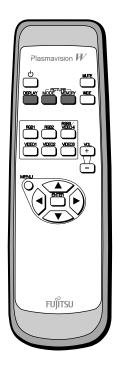
The input terminal of each RGB mode is as follows.

- RGB1: DVI-D
- RGB2: mD-sub



RGB1 mode

# **CONVENIENT FUNCTIONS**



## **On-screen information (DISPLAY)**

	DISPLAY
Press	

The mode is indicated on the screen for 5 seconds.

## Picture Mode (PICTURE MODE)



This button can be used to switch the picture mode.

In the picture mode, you can switch between the set status and the fine mode.

\* For the picture mode settings, see "Setting Picture Mode (P. E-26)".

## Picture Memory (PICTURE MEMORY)



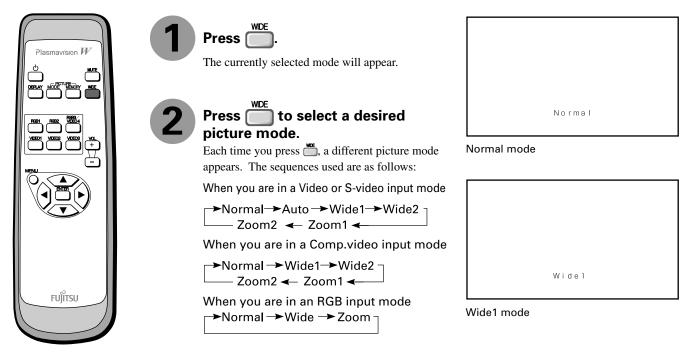
This button can be used to recall the settings of the picture memories 1 - 8. Each time this button is pressed, the setting changes as follows.

Memory1 Memory2 Memory3 Memory4 Memory5 Memory6 Memory7 Memory8-

\* For the picture memory settings, see "Picture Memory (P. E-27)".

# WATCHING PICTURES ON THE WIDE SCREEN

# SWITCHING BETWEEN SCREEN SIZES



- \* You can also use the buttons on the display's control panel to perform these steps.
- \* Depending on the type of signal, some aspects may not be selected.

#### 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.

## Wide2/Wide

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

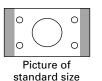
## Zoom1/Zoom

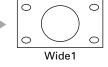
Enlarges horizontally extended pictures equally in all directions to maintain the aspect ratio constant.

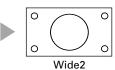
## Zoom2

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.)







0

0

Vertically extended picture

 $\bigcirc$ 

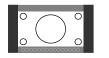
0



Horizontally extended picture

0

0



 $\sim$ 

Zoom1

0

0

Horizontally extended picture with caption

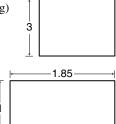
Zoom2

ASPECT RATIO

The following aspect ratios are available.

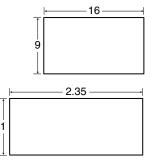
4:3 aspect ratio (VHF/UHF broadcasting, BS broadcasting)

1.85:1 aspect ratio (Vista Vision size)



16:9 aspect ratio (HDTV broadcasting)

2.35:1 aspect ratio (Cinema Vision size)

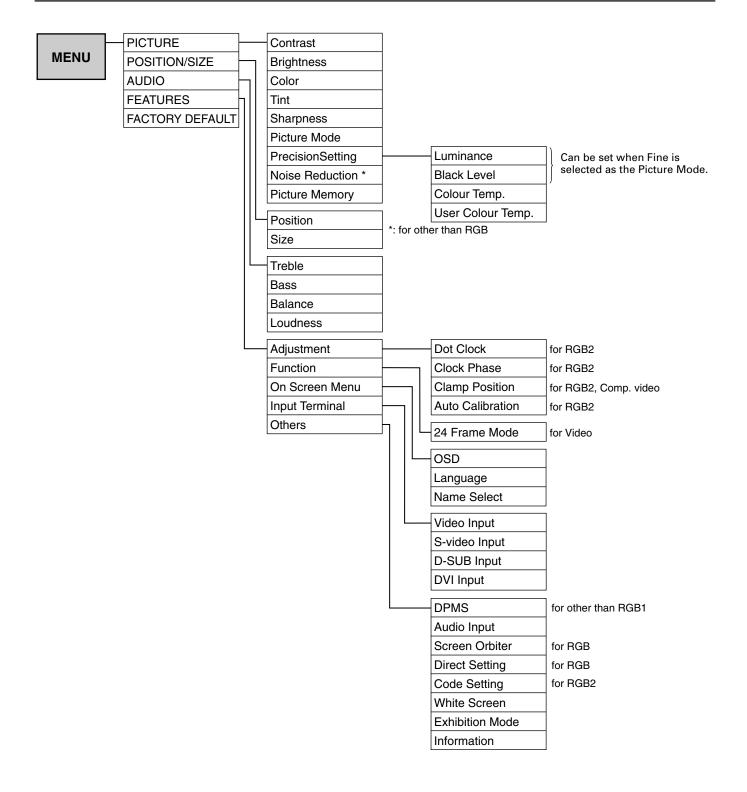


#### Information

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.

# **ADJUSTMENT MENU**

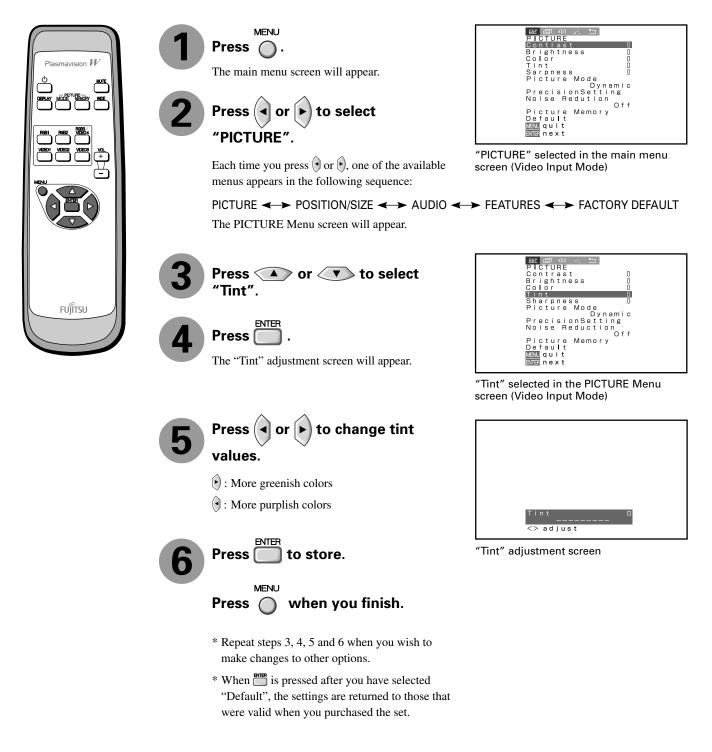
# **ADJUSTMENT MENU**



# 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.



### Contrast, brightness, color darkness, tint, and picture sharpness are adjusted as shown in the following chart.

Select the item with 👁 👁, and then adjust with 🌒 🖲. Finally, press 🎬 to implement the adjustments.

Adjustment Item	() ()	Þ	Adjustment Range/Remarks
Contrast	Lower contrast	Higher contrast	-30 to +30
Brightness	Darker screen	Brighter screen	-60 to +60
Color	Lighter colors	Darker colors	-60 to +60
Tint	More purplish colors	More greenish colors	-60 to +60 (RGB, Comp. video) -30 to +30 (Video, S-video)
Sharpness	Softer pictures	Sharper pictures	-4 to +4 (RGB) -16 to +16 (other than RGB)

#### Setting Picture Mode (Picture Mode)

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 to store.

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

#### Precision Setting (for more advanced adjustment)

Luminance, Black Level, Color Temperature, and User Color Temperature are adjusted as shown in the following chart.

Select the item with , and then adjust with . Finally, press  $\overset{\texttt{MB}}{=}$  to implement the adjustments.

Adjustment Item	Contents of Adjustments	Operation	Adjustment Range/Remarks
Luminance	Adjusts the luminance level. (when the Picture Mode is Fine)	Use 🕢 🕟 to adjust.	40 to 100%
Black Level	Adjusts the picture when watching a dark image. (when the Picture Mode is Fine)	Use 🕢 🕑 to adjust.	-15 to +15
Color Temperature	Set to low to obtain a warm atmosphere, and set to high to obtain a cold atmosphere.	Use 🕢 🕑 to adjust.	-3500 to +3500
User Color Temperature	Enables individual adjustment of Red, Green and Blue.	Use $$ To select, and use $$ to adjust.	0 to 255

English

## Setting Noise Reduction (Noise Reduction)

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 setting
- Std.: Standard setting Max.: Strong setting

Press to store.

\*Some type of signal can not be selected.

## · Storing the setting of PICTURE (Picture Memory)

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

The "Picture Memory" screen will appear.

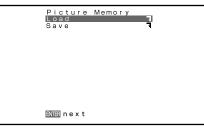
- (2) Press r or to select Load.
- (3) Select Data number to make Load.
- (4) Press  $\square$  to read out.

## In case of "Save"

- When setting "Save": Set to suit your taste and store.
- (1) Select "Picture Memory" and press

The "Picture Memory" screen will appear.

- (2) Press ( ) or ( ) to select Save.
- (3) Select Data number to make Save.
- (4) Press  $\square$  to save.



"Picture Memory" selection screen



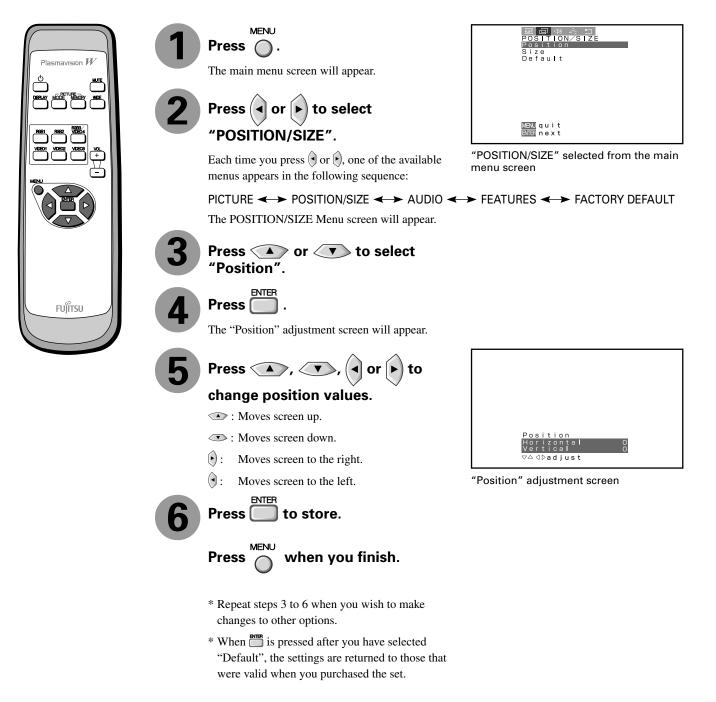
"Load" selection screen

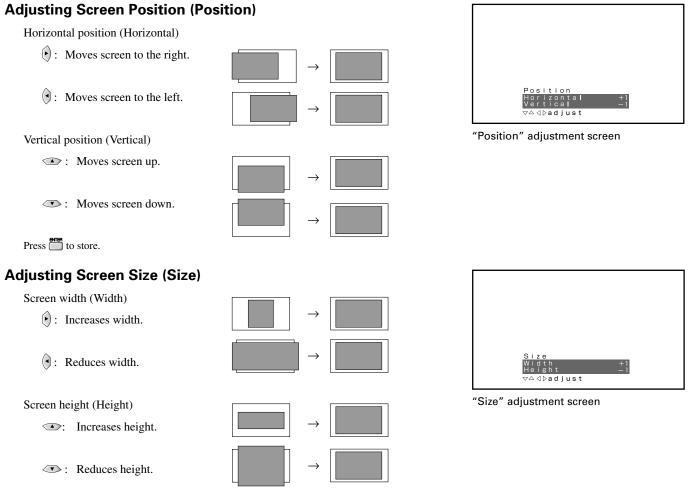
\* On-screen information disappears if you do not take any action for about 60 seconds.

## **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.





Press to store.

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

## **Setting Range**

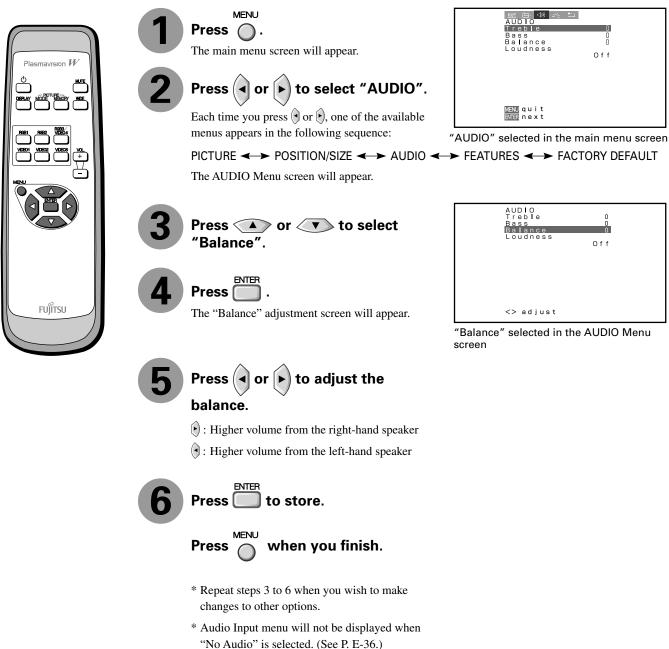
	Video, S-video mode	Comp.video mode	RGB mode
Position	Horizontal: -30 to +30 Vertical Zoom: -15 to +15 Others: -7 to +7	-16 to +16	-150 to +150
Size	-3 to +12 (P42HHA10) -7 to +16 (P42VHA10/20) -7 to +12 (P50XHA10)	-2 to +16 (P42HHA10) -4 to +20 (P42VHA10/20) -4 to +16 (P50XHA10)	-12 to +25 (P42HHA10) -25 to +50 (P42VHA10/P50XHA10/ P42VHA20)

\* Depending on the input signal, the adjustment range may differ.

# 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.



## Adjusting Treble (Treble)

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

- : Stronger treble
- : Weaker treble

## **Adjusting Bass (Bass)**

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

- : Stronger bass
- 🕒 : Weaker bass

## **Adjusting Volume Balance (Balance)**

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

- $\bigodot$  : Higher volume from the right-hand speaker
- $\bigcirc$  : Higher volume from the left-hand speaker

## **Setting Loudness (Loudness)**

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

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

On ↔ Off

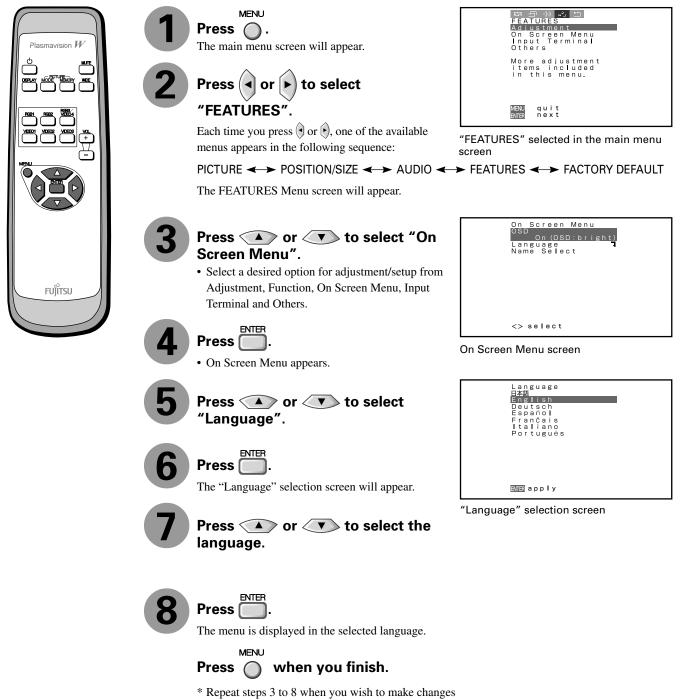
On : Corrects bass and treble.

Off: Loudness dose not function.

AUDIO Treble Bass Balance Loudness	0 0 0 0 f f
<> adjust	
AUDIO Menu screen	

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

You can make the following changes in the FEATURES Menu.



to other options.

English

#### • FEATURES setup screen has the following 5 options.

Adjustment	: Can make a fine adjustment of pictures such as Dot Clock, Clamp Position.
Function	: Allows setting of 24-frame mode. (See P. E-34.)
On Screen Menu	a : 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.)
Others	: Can make other settings. (See P. E-36–E-38.)

# ADJUSTMENT

## Dot Clock, Clock Phase, Clamp Position, and Auto Calibration are adjusted as shown in the following chart.

Select the item with 👁 🐢, and then adjust with 🕑 🖲. Finally, press 🛅 to implement the adjustments.

Adjustment Item	Contents of Adjustments	Operation	Adjustment Range/Remarks
Dot Clock (RGB2)	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 to select the optimal value at which blurring of pictures is eliminated.	-60 to +60
Clock Phase (RGB2)	Pictures may blur as the clock phase of your PC may be different. In this case, adjust the clock phase manually. Normally, the automatic setting ensures the optimal value.	Use to select the optimal value at which blurring of pictures is eliminated.	Auto/Manual Manual: 1 to 32
Clamp Position (RGB2, Comp. video)	Adjusts the clamp position in accordance with the input signal received from connected equipment. Normally, the automatic setting ensures the optimal value.	Use $\bigcirc$ to select the optimal value.	-8 to +8
Auto Calibration (RGB2)	Adjusts the dynamic range of images to the optimum. Performed while a white screen signal is received.	Display the Auto Calibration screen and select Execute, and then use to select the item.	Execute/Cancel

## Press to store. E-34

# **OTHER ADJUSTMENTS (FEATURES MENU) (Continued)**

# **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 to store.

\* Some type of signal can not be selected.

# ON SCREEN MENU

### Setting Display Information (OSD)

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 () or (), one of the available choices appears in the following sequence:

ightarrow On(OSD:bright) ightarrow On(OSD:dark) ightarrow Off ightarrow

On (OSD:bright): On-screen information shown in light color.

On (OSD:dark): On-screen information shown in dark color.

Off: Except for menus and error messages, on-screen information is not displayed. Press to store.

#### Selecting Language (Language)

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

(1) Select "Language" and press

The "Language" selection screen will appear.

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

日本語 (Japanese) English Deutsch (German) Español (Spanish) Français (French) Italiano (Italian) Português (Portuguese)

(3) Press

The menu is displayed in the selected language.

### Selection of indications

You can change the settings for indications for video inputs and RGB inputs.

#### Video input

You can change the settings for indications for the VIDEO inputs.

Select the desired indication in accordance with the connected equipment.

Each time () is pressed, the setting is switched. (In the case of VIDEO1)

→Video1→DVD1→DVD2→VCR1→VCR2→GAME→Camcorder→STB→Satellite→Cable TV→

Press to store.

#### **RGB** input

You can change the settings for indications for the RGB inputs.

Select the desired indication in accordance with the connected equipment.

Each time (•) is pressed, the setting is switched. (In the case of RGB 1)

→ RGB1 ← PC1 ← PC2 ← DVD1 ← DVD2 ← STB ← Satellite ← Cable TV ←

"Language" selection screen

On Screen Menu OSD On (OSD:bright) Language Name Select

<> select

OSD selection screen



for Video

# SETTING THE INPUT TERMINALS

#### Selecting Video Mode (Video Input)

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:

► Auto1 ← Auto2 ← NTSC ← PAL ← SECAM ← PAL60 ← N-PAL ← M-PAL ← 4.43NTSC ←

Auto1: Automatically selects NTSC, PAL and SECAM.

Auto2: Automatically selects NTSC and M-PAL.

Other than Auto: You need to select a system appropriate to the input signal.

Press to store.

### Selecting S-video Mode (S-video Input)

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:

→Auto1→Auto2→NTSC→PAL→SECAM→PAL60→N-PAL→M-PAL→4.43NTSC→

Auto1: Automatically selects NTSC, PAL and SECAM.

Auto2: Automatically selects NTSC and M-PAL.

Other than Auto: You need to select a system appropriate to the input signal.

Press to store.

#### Selecting D-SUB Input (D-SUB Input)

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

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  $\stackrel{\text{BMTBP}}{=}$  to store.

#### DVI Input

You can select the signal method input to the DVI input terminal. Each time  $( \bullet )$  or  $( \bullet )$  is pressed, the setting is changed.

```
DVI1 ←→ DVI2
```

DVI1: Used when connecting to a PC.

DVI2: Used when connecting to a DVD player or digital tuner.

Press to store.

\* Set according to the signal method before connecting peripheral device.

D-SUB Input Function RGB-PC <> select

#### "D-SUB Input" selection screen



This fringe part is masked.

for other then RGB1

# **OTHER SETTINGS**

#### DPMS

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.

(1) Select DPMS and press

DPMS screen appears.

(2) Press  $\frown$  or  $\frown$  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 colour.

Press  $\bigcirc$  or  $\bigcirc$  to select background colour.

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 to store.

#### Selecting input terminals (Audio Input)

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

(1) Select "Audio Input" and press  $\square$ .

The "Audio Input" selection screen will appear.

(2) Press  $\bigcirc$  or  $\bigcirc$  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:  $\rightarrow$  No Audio  $\rightarrow$  Audio 1 $\leftrightarrow$  Audio 2  $\leftrightarrow$  Audio 3  $\leftarrow$ 

No audio: No sound in the corresponding mode.

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

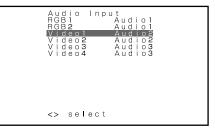
\* Repeat steps (2) and (3) for each piece of input equipment.

(4) Press to store.

\*Audio Input menu will not be displayed when "No Audio"is selected.

DPMS Hime Backround	Off Black
<> select	

DPMS selection screen



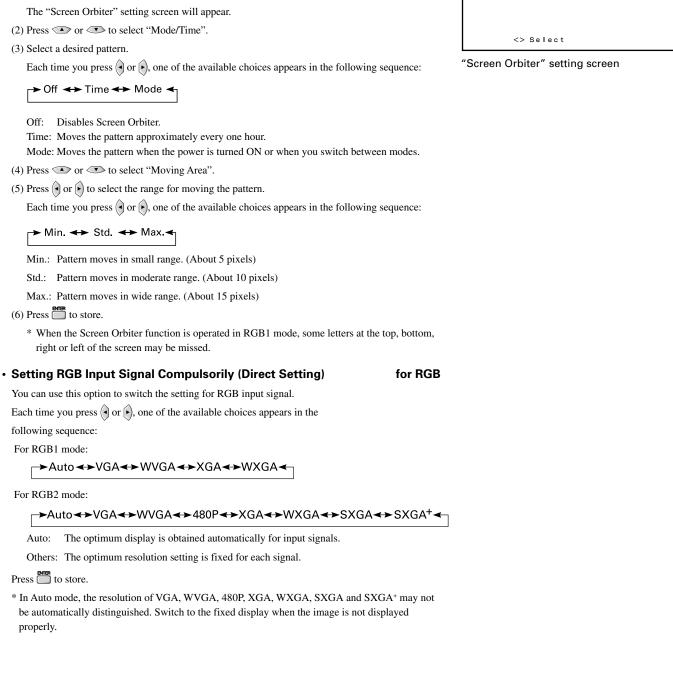
"Audio Input" selection screen

English

Screen Orbiter Mode/Time

Δr

Std.



for RGB

#### · 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

#### (3) Select a desired pattern.

Time: Moves the pattern approximately every one hour.

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

For RGB1 mode:

For RGB2 mode:

Press to store.

be automatically distinguished. Switch to the fixed display when the image is not displayed properly.

# **OTHER ADJUSTMENTS (FEATURES MENU) (Continued)**

for RGB2

#### 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 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.

#### Displaying white over entire screen (White Screen)

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 to store.

#### Setting Exhibition Mode (Exhibition Mode)

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 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.

#### • Displaying System Status (Information)

Displays system operation status.

Select "Information" and press

The "Information" screen will appear.

Mode: Input mode appears at the upper right corner of the screen.

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 screen (Video Mode)





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

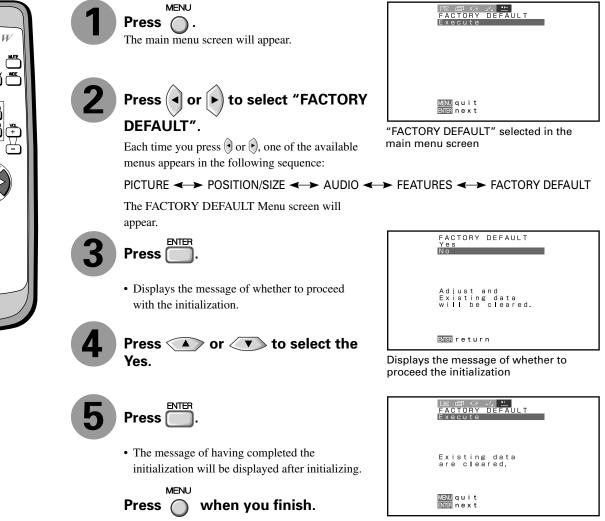


"Code Setting" setting screen

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

MENU





Displays the message of having completed the initialization

# **OPTIONS**

Wall-mounting unit	0° to 15° mounting angle	P-WB4200	
Hanging unit	0° to 15° mounting angle	P-CT4200	
Stand		P-TT4200	
Speaker		P-SP4200 (for 42") P-SP5000 (for 50") (1 set of 2 speakers)	
Speaker Stand		P-ST4200 (for 42") P-ST5000 (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 (P42VHA10/P42HHA10/P50XHA10/P42VHA20) is for use only with Fujitsu General Limited's option (P-WB4200, P-CT4200, P-TT4200). Using this display with other option can cause instability resulting in possible injury.

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.

Display (dots x lines)	Horizontal frequency (kHz)	Vertical frequency (Hz)	Signal	DVI-D
640 x 480	31.47	59.94	VGA	0
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	0
800 x 600	37.88	60.32	SVGA 60 Hz	0
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	0
1024 x 768	60.02	75.03	XGA 75 Hz	
1024 x 768	68.68	84.99	XGA 85 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	106.25	85.00	UXGA 85 Hz	
848 x 480	31.02	60.00		0
852 x 480	31.72	59.97		
1360 x 768	47.71	60.01		
720 x 485	15.73	59.94	60 fields	
720 x 575	15.63	50.00	50 fields	

#### Main corresponding signals (RGB mode)

\* 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/XGA/UXGA, 75 Hz or less for 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:

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 (Comp.video mode)

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

• Depending on the input signal, the display may show pictures of reduced size due to size reduction and interpolation.

- "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-38.)
- In order to facilitate the explanations, pictures and diagrams in this manual may differ slightly from the actual items.
- All terms (i.e., company and product names) used in this document are trademarks or registered trademarks.

# **SPECIFICATION**

Model	P42VHA10W/P42VHA10A	P42HH	A10W/P	42HHA10A
Screen size	42" wide screen: 92.1 cm (W) x 51.8 cm (H) (105.7 cm diagonal) 36.3 inch (W) x 20.4 inch (H) (41.6 inch diagonal)			(106.0 cm diagonal) (41.7 inch diagonal)
Aspect ratio	16:9 (wide)			
Weight	28.5 kg / 62.8 lbs			
Outer dimensions	103.7 (W) x 64.2 (H) x 8.5 (D) cm 40.8 (W) x 25.3 (H) x 3.3 (D) inch			
Power supply	110–240 VAC 50/60 Hz			
Current rating	3.1–1.4 A	4.4–1.9 A		
Number of pixels	852 (H) x 480 (V)	1024 (H) x 1024	(V)	
Display modes	Video, S-video input: Normal/Auto/Wide1/W	ide2/Zoom1/Zoom2	2	
	Component video input: Normal/Wide1/Wide2/2	Zoom1/Zoom2		
	RGB: Normal/Wide/Zoom			
Colors	16.77 million			
External equipment terminals				
Video input terminals	VIDEO1 INPUT (Video input)	1 RCA terminal	1 Vp-p/	75 Ω
	VIDEO2 INPUT (S-video input)	1 S terminal	Y: C:	1 Vp-p/75 Ω 0.286 Vp-p/75 Ω
	VIDEO3/VIDEO4 INPUT	3 RCA terminals	Y:	1 Vp-p/75 Ω
	(Component video input)		Pb/Cb: Pr/Cr:	0.7 Vp-p/75 Ω 0.7 Vp-p/75 Ω
Applicable systems	NTSC/PAL/SECAM/PAL60/N-PAL/M-PAL/4.43	NTSC		
PC input terminal	RGB1 input       1 DVI-D terminal (EIA/CEA-861 Compliant)         RGB2 input       mD-sub, 3 rows, 15-pin         Picture signal: 0.7 Vp-p/75 Ω         Synchronization signal:TTL level			
Sound terminals	2 sound input pin jacks (L/R) (3 lines) 500 mVrms/at least 22 kΩ	2 sound input pin jacks (L/R) (3 lines)		
Control terminal	1 RS-232C connector (D-sub 9-pin)			
External speaker output terminal	Effective max. output: 20 W + 20 W (EIAJ), 4 $\Omega$			
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			

## Regulation ---- P42VHA10W

Regulation P42VHA10W	Regulation P42VHA10A/P42HHA10W/P42HHA10A
• UL, CSA Safety: UL6500, C-UL	<ul> <li>UL, CSA Safety: UL6500, C-UL</li> </ul>
EMC: FCC Part 15 Class A, ICES-003 Class A	EMC: FCC Part 15 Class B, ICES-003 Class B
• CE Safety: EN60065	• CE Safety: EN60065
EMC: EN55022 1998, Class A	EMC: EN55022 1998, Class B
EN61000-3-2 1995	EN61000-3-2 1995
EN61000-3-3 1995	EN61000-3-3 1995
EN55024 1998	EN55024 1998
EN61000-4-2 1995	EN61000-4-2 1995
EN61000-4-3 1996	EN61000-4-3 1996
EN61000-4-4 1995	EN61000-4-4 1995
EN61000-4-5 1995	EN61000-4-5 1995
EN61000-4-6 1996	EN61000-4-6 1996
EN61000-4-8 1993	EN61000-4-8 1993
EN61000-4-11 1994	EN61000-4-11 1994
• AS Safety: IEC60065	• AS Safety: IEC60065
EMC: AS/NZS 3548	EMC: AS/NZS 3548

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	English
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Model	P50XHA10W/P50XHA10A	P	50XHA	10U
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)			
Aspect ratio	16:9 (wide)			
Weight	45.0 kg / 99.2 lbs			
Outer dimensions	121.4 (W) x 72.8 (H) x 9.8 (D) cm 47.8 (W) x 28.7 (H) x 3.9 (D) inch			
Power supply	220–240 VAC 50/60 Hz	120 VAC 50/60 H	[z	
Current rating	2.7–2.0 A	4.9 A		
Number of pixels	1366 (H) x 768 (V)			
Display modes	Video, S-video input: Normal/Auto/Wide1/Wi	de2/Zoom1/Zoom2		
-	Component video input: Normal/Wide1/Wide2/Z	Coom1/Zoom2		
-	RGB: Normal/Wide/Zoom			
Colors	16.77 million			
External equipment terminals				
Video input terminals	VIDEO1 INPUT (Video input)	1 RCA terminal	1 Vp-p/	75 Ω
-	VIDEO2 INPUT(S-video input)	1 S terminal	Y: C:	1 Vp-p/75 Ω 0.286 Vp-p/75 Ω
-	VIDEO3/VIDEO4 INPUT (Component video input)	3 RCA terminals	Y: Pb/Cb: Pr/Cr:	1 Vp-p/75 Ω 0.7 Vp-p/75 Ω 0.7 Vp-p/75 Ω
Applicable systems	NTSC/PAL/SECAM/PAL60/N-PAL/M-PAL/4.431	NTSC		·····
PC input terminal	RGB1 input       1 DVI-D terminal (EIA/CEA-861 Compliant)         RGB2 input       mD-sub, 3 rows, 15-pin         Picture signal: 0.7 Vp-p/75 Ω         Synchronization signal:TTL level			
Sound terminals	2 sound input pin jacks (L/R) (3 lines) 500 mVrms/at least 22 kΩ			
Control terminal	1 RS-232C connector (D-sub 9-pin)			
External speaker output terminal	Effective max. output: 12 W + 12 W (EIAJ), 6 $\Omega$			
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			

#### Regulation --- P50XHA10W

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• UL, CSA Safety: Ul	L6500, C-UL	<ul> <li>UL, CSA Safety: UL6500, C-UL</li> </ul>
EMC: FCC Pa	art 15 Class A, ICES-003 Class A	EMC: FCC Part 15 Class B, ICES-003 Class B
• CE Safety: EN600	65	• CE Safety: EN60065
EMC: EN550	22 1998, Class A	EMC: EN55022 1998, Class B
EN610	00-3-2 1995	EN61000-3-2 1995
EN610	00-3-3 1995	EN61000-3-3 1995
EN550	24 1998	EN55024 1998
EN610	00-4-2 1995	EN61000-4-2 1995
EN610	00-4-3 1996	EN61000-4-3 1996
EN610	00-4-4 1995	EN61000-4-4 1995
EN610	00-4-5 1995	EN61000-4-5 1995
EN610	00-4-6 1996	EN61000-4-6 1996
EN610	00-4-8 1993	EN61000-4-8 1993
EN610	00-4-11 1994	EN61000-4-11 1994
• AS Safety: IEC600	)65	AS Safety: IEC60065
EMC: AS/NZ	S 3548	EMC: AS/NZS 3548

• 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.

Model	P42VHA20W/P42VHA20A	F	42VHA	20U
Screen size	42" wide screen: 92.0 cm (W) x 51.8 cm (H) (106.0 cm diagonal) 36.2 inch (W) x 20.4 inch (H) (41.7 inch diagonal)			
Aspect ratio	16:9 (wide)			
Weight	29.5 kg / 65.0 lbs			
Outer dimensions	103.7 (W) x 64.2 (H) x 8.5 (D) cm 40.8 (W) x 25.3 (H) x 3.3 (D) inch			
Power supply	220–240 VAC 50/60 Hz	120 VAC 50/60 Hz		
Current rating	1.8–1.5 A	4.3 A		
Number of pixels	852 (H) x 480 (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	1			
Video input terminals	VIDEO1 INPUT (Video input)	1 RCA terminal	1 RCA terminal 1 Vp-p/75 Ω	
	VIDEO2 INPUT(S-video input)	1 S terminal	Y: C:	1 Vp-p/75 Ω 0.286 Vp-p/75 Ω
	VIDEO3/VIDEO4 INPUT (Component video input)	3 RCA terminals	Y: Pb/Cb: Pr/Cr:	11
Applicable systems	NTSC/PAL/SECAM/PAL60/N-PAL/M-PAL/4.43NTSC			
PC input terminal	RGB1 input       1 DVI-D terminal (EIA/CEA-861 Compliant)         RGB2 input       mD-sub, 3 rows, 15-pin         Picture signal: 0.7 Vp-p/75 Ω         Synchronization signal:TTL level			
Sound terminals	2 sound input pin jacks (L/R) (3 lines) 500 mVrms/at least 22 kΩ			
Control terminal	1 RS-232C connector (D-sub 9-pin)			
External speaker output terminal	Effective max. output: $12 \text{ W} + 12 \text{ W}$ (EIAJ), $6 \Omega$			
Operating conditions	Temperature:         0 to 40 °C / 32 to 104 °F           Humidity:         20 to 80 %			
Accessories	1 remote control, 2AA batteries, 1 instruction m 2 small ferrite cores	anual, 1 power cable,	, 2 big fer	rite cores,
Regulation P42VHA20W/P42	VHA20A Regulation	P42VHA20U		

#### Regulation --- P42VHA20W/P42VHA20A

negulation F 42 VIIA20W/F 42 VIIA20A	Negulation P +2 VIIA200
<ul> <li>UL, CSA Safety: UL6500, C-UL</li> </ul>	<ul> <li>UL, CSA Safety: UL6500, C-UL</li> </ul>
EMC: FCC Part 15 Class B, ICES-003 Class B	EMC: FCC Part 15 Class B, ICES-003 Class B
• CE Safety: EN60065	• CE Safety: EN60065
EMC: EN55022 1998, Class B	EMC: EN55022 1998, Class B
EN61000-3-2 1995	EN61000-3-2 1995
EN61000-3-3 1995	EN61000-3-3 1995
EN55024 1998	EN55024 1998
EN61000-4-2 1995	EN61000-4-2 1995
EN61000-4-3 1996	EN61000-4-3 1996
EN61000-4-4 1995	EN61000-4-4 1995
EN61000-4-5 1995	EN61000-4-5 1995
EN61000-4-6 1996	EN61000-4-6 1996
EN61000-4-8 1993	EN61000-4-8 1993
EN61000-4-11 1994	EN61000-4-11 1994
AS Safety: IEC60065	AS Safety: IEC60065
EMC: AS/NZS 3548	EMC: AS/NZS 3548

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### 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.	<ul> <li>Check cables for disconnection.</li> <li>Check whether the power for all input equipment is ON.</li> <li>Check for connection to wrong terminals or for wrong input mode.</li> <li>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.</li> </ul>	
• Remote control does not function properly.	<ul> <li>Check for incorrect battery orientation.</li> <li>Check for dead batteries.</li> <li>Check for distance from the display.</li> <li>Check whether you are pointing the remote control transmitter properly at the display's receiver.</li> <li>Check for any obstacle between the remote control and the display.</li> </ul>	
• 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-25–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.	
• If "Out of range" appears or the screen turns black and white, the display is receiving a signal whose picture or signal cannot be reproduced by the display.	• Input proper signals. Make sure that the vertical frequency of the input signal is 85 Hz or less for SVGA/ XGA/UXGA, 75 Hz or less for 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.	<ul> <li>Remove the power plug from the receptacle, and inform your dealer about how the lamp flashed.</li> <li>As explained below, the power indicator lamp flashes differently depending on the type of problem: <ul> <li>Flashes repeatedly: Improper supply voltage level</li> <li>Flashes once: Malfunction by the fan</li> <li>Flashes twice: Excessive temperature</li> <li>Flashes three times or more: Other problems</li> </ul> </li> </ul>	