42PMA300A USER'S MANUAL

Thank you very much for purchasing the HITACHI Plasma Display Monitor.

Before using your monitor, please carefully read the "SAFETY INSTRUCTIONS" and this "USER'S MANUAL" so you will know how to operate the monitor properly. Keep this manual in a safe place. You will find it useful in the future.

Notes on Installation Work:

This product is marketed assuming that it is installed by qualifed personnel with enough skill and competence. Always have an installation specialist or your dealer install and set up the product. HITACHI cannot assume liabilities for damage caused by mistake in installation or mounting, misuse, modification or a natural disaster.

Note for Dealers:

After installation, be sure to deliver this manual to the customer and explain to the customer how to handle the product.

Please read this User's Manual thoroughly, especially the Safety Instructions on Page 4 to 7. Mis-use may cause damage to your plasma monitor, which could shorten its lifespan, or cause injury to yourself. Should you encounter any difficulty in the set-up or operation of your monitor, firstly refer to the Troubleshooting guide at the rear of this manual

In the unlikely event of a problem occurring with your plasma monitor, switch off at the mains sockets, pull out the plugs, and contact your dealer immediately.

CAUTION

Under no circumstances remove the rear cover of your plasma

Never guess or take any chances with electrical equipment of any kind - it is better to be safe than sorry!

Software Notice

It is prohibited for the end user of this product to copy, reverse engineer or reverse compile the software included therein, save to the extent permitted by law

Plasma Monitor

After the plasma monitor has been on for any length of time, you will notice that the screen becomes warm. Please note that this is normal. Sometimes the screen might have some tiny bright or dark spots. Please note that this is normal

To prevent scratches or damages to the plasma screen, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. A mild soap may be used if the screen is extremely dirty. Do not use harsh or abrasive cleaners!

CAUTION

Use a soft cloth to clean the cabinet and control panel of the monitor. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or

FEATURES

Large-screen, high-definition plasma display panel

The 42-inch color plasma display panel, with a resolution of 852 (H) x 480 (V) pixels, creates a high-definition, large-screen (aspect ratio : 16:9) and low-profile flat display. Free from electromagnetic interferences from geomagnetic sources and ambient power lines, the panel produces high-quality display images free from color misconvergence and display distortion.

High Performance Digital Processor

A wide range of personal computer signals can be handled, from 640 x 400, 640 x 480 VGA to 1600 x 1200 UXGA. (RGB Analog input)

Easy-to-use remote control and on screen display system

The remote control included eases the work of setting display controls. Further, the on-screen display system, displays the status of signal reception and display control settings in an easy-to-view fashion.

Power saving system

The International ENERGY STAR® power saver feature saves power consumption automatically when input signals are not available. When connected to a VESA DPMS-compliant PC, the monitor cuts its power consumption while it is idle.

TruBass SRS(0)

TruBass, SRS and (O) symbol are trademarks of SRS Labs,Inc. TruBass technology is incorporated under license from SRS Labs, Inc.

About the Optional Video Unit

The following functions can be obtained by connecting the optional video unit.

- (1) A composite/S terminal and two component terminals have been added. A composite video output terminal is also provided as a monitoring output.
- (2) A wide range of devices other than personal computers can also be connected.
- (3) A component input is possible to switch to RGB signals from the
- (4) A SCART terminal is also provided for the signal of the European standard. It operates as composite/S/RGB input terminal, or video output terminal.

Options

Ask your local retail dealer for further details.

- 1. Desktop stand:
 - CMPAD25
- 2. Plasma monitor speaker:
 - CMPAS14S 2 way speaker unit with one 2.5cm dome type

tweeter and two 8cm round type woofers (color:

light gray)

3. Video unit: CMPAVW1VK

An expansion unit for viewing video with this device.

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Notes about This Manual

- The information in this manual is subject to change without notice.
 While meticulous care has been taken in the preparation of this manual, you are requested to notify your dealer or us should you have any comments, views or questions about our product.
 Fully understand the prerequisites to using the product, such as hardware and software specifications and constraints, in using the product. We are not held liable for damages caused by improper handling of the product.
 Reproduction of this manual in whole or in part without our prior written permission is prohibited.
 The product names mentioned in this manual may be trademarks or registered trademarks of their respective owners.

SAFETY INSTRUCTIONS

This Plasma monitor has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

Before using this product, please read and understand the Safety Instructions thoroughly to ensure correct usage, and follow all the instructions.

About the Symbols

Various symbols are used in this manual, the user's manual and on the product itself to ensure correct usage, to prevent danger to the user and others, and to prevent property damage. The meanings of these symbols are described below. It is important that you read these descriptions thoroughly and fully understand the contents.



This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.



This symbol indicates information that, if ignored, could result possibly in personal injury or physical damage due to incorrect handling.

Typical Symbols



This symbol indicates an additional warning (including cautions). An illustration is provided to clarify the contents.



This symbol indicates a prohibited action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that disassembly is prohibited).



This symbol indicates a compulsory action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that the power plug should be disconnected from the power outlet).



Never use the monitor if a problem should occur.

Abnormal operations such as smoke, strange odor, no image, no sound, excessive sound, damaged casing, elements, cables, penetration of liquids or foreign matter, etc. can cause a fire or electrical shock.



in such case, immediately turn off the power switch and then disconnect the power plug from the power outlet. After making sure Disconnect the that the smoke or odor has stopped, contact your dealer. Never attempt to make repairs yourself because this could be plug from the dangerous.

power outlet

Do not insert liquids or foreign objects.

Penetration of liquids or foreign objects could result in fire or electrical shock. Use special caution in households where children are present

If liquids or foreign objects should enter the projector, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.



- Do not place the monitor in a bathroom.
- Do not expose the monitor to rain or moisture
- Do not place flower vases, pots, cups, cosmetics, liquids such as water, etc on or around the monitor
- Do not place metals, combustibles, etc on or around the monitor.

Never disassemble or modify the monitor.

The monitor contains high voltage components. Modification could result in fire or electrical shock.

• Never remove any fixed cover.



Do not give the monitor any shock or impact.

If the monitor should be shocked and/or broken, it could result in an injury, and continued use could result in fire or electrical shock If the glass panel is broken or damaged, immediately turn off the power switch, disconnect the power plug from the power outlet



Do not place the monitor on an unstable surface.

If the monitor should be dropped and/or broken, it could result in an injury, and continued use could result in fire or electrical shock.

• Do not place the monitor on an unstable, slant or vibrant surface such as a wobbly or inclined stand.



Do not obstruct the ventilation of the monitor.

If the ventilation is obstructed during the operation of the monitor or just after switching off the power, it could result in damage and shorten the lifespan of your monitor due to overheating. Make sure there is ample ventilation

- Keep a space of 100mm (10cm) or more between the sides, rear and top of the monitor and other objects such as walls.
- Do not place anything around ventilation openings of the monitor.
- Never block ventilation openings.
- Do not put the plasma screen side up.
- Do not cover the monitor with a tablecloth, etc.
- Do not place the monitor on a carpet or bedding, or near a curtain.

Use only the correct power outlet.

Incorrect power supply could result in fire or electrical shock. Use only the correct power outlet depending on the indication on the monitor and the safety standard.

• The enclosed power cord must be used depending on the power outlet to be used.

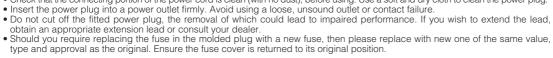


Be cautious of the power cord connection.

Incorrect connection of the power cord could result in fire or electrical shock.

• Do not touch the power cord with a wet hand.

- Check that the connecting portion of the power cord is clean (with no dust), before using. Use a soft and dry cloth to clean the power plug.



Be sure to keep safety ground connection.Connect the ground terminal of AC inlet of this monitor with the ground terminal provided at the power outlet using the enclosed power cord. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.



Be careful in handling the power cord and external connection cables.If you keep using a damaged the power cord or cables, it can cause a fire or electrical shock. Do not apply too much heat, pressure or tension to the power cord and cables.

- If the power cord or cables are damaged (exposed or broken core wires, etc.), contact your dealer.

 Do not place the monitor or heavy objects on the power cord and cables. Also, do not place a spread, cover, etc, over them
- because this could result in the inadvertent placing of heavy objects on the concealed power cord or cables.

 Do not pull the power cord and cables. When connecting and disconnecting the power cord or cables, do it with your hand holding the plug or connector.
- Do not place the cord near the heater.
- Do not touch the power plug just after disconnecting it from the power outlet to prevent electric shock.
 Do not touch the power plug when lightening is close to you.
 Avoid coiling the power cord and bending it sharply.

- Protect the power cord from being walked on, pinched particularly at plugs, conveniences receptacles, and the point where they exit from the apparatus.
- Do not modify the power cord

Be careful in handling the battery of the remote control.

Incorrect handling of the battery could result in fire or personal injury. The battery may explode if not handled properly.

• Keep the battery away from children and pets. If swallowed consult a physician immediately for emergency treatment.

- Do not allow the battery to be exposed to fire or water.
 Avoid fire or high-temperature environment.
 Do not hold the battery with metallic tweezers.

- Keep the battery in a dark, cool and dry place.
 Do not short circuit the battery.
- Do not recharge, disassemble or solder the battery.
- Do not physically impact the battery.
- Use only the battery specified in the manual of this monitor.
 Make sure the plus and minus terminals are correctly aligned when loading the battery
- If you observe a leakage of the battery, wipe out the liquid and then replace the battery. If the liquid adheres your body or clothes rinse well with water
- · Obey the local laws on disposing the battery





SAFETY INSTRUCTIONS(continued)



Be careful in moving the monitor.

Neglect could result in an injury or damage.

- Do not move the monitor during use. Before moving, disconnect the power plug and all external connections
- You are advised to move the monitor with two persons.
- Avoid any impact or shock to the monitor; particularly take care of glass screen.

Do not put anything on top of the monitor.

Placing anything on the monitor could result in loss of balance or falling, and cause an injury or damage. Use special caution in households where children are present.



Avoid a humid or dusty place.

Placing the monitor in a smoke, a highly humid, dusty place, oily soot or corrosive gas could result in fire or electrical shock.

• Do not place near the kitchen, a humidifier or other place where there is oil, smoke or humidity.



Avoid a high temperature environment.

The heat could have adverse influence on the monitor and other parts, and could result in transformation, melting or fire.

- Do not place the monitor, the remote control and other parts in direct sunlight or near a hot object such as heater, etc.
- Do not put the monitor in a place where the temperature is widely changing.



Remove the power cord for complete separation.

- For safety purposes, disconnect the power cord if the monitor is not to be used for prolonged periods of time.
- Before cleaning, turn off and unplug the monitor. Neglect could result in fire or electrical shock.

plug from the power outlet

PRECAUTIONS

Installation environment

Do not obstruct a ventilation hole.

Do not put the monitor on carpet or blanket, or near a curtain which has a possibility of obstructing a ventilation hole of the monitor.

Do not put the monitor in the following places.

- Hot places such as near heater, place exposed to the direct rays of the sun.
- A place where the temperature is widely changing.
- · Places with soot, dust or high humidity
- Poor air ventilation place.
- Place near fire.
- A wet place such as bathroom, or shower room.
- Place where you can trip over it
- · Always vibrating or strongly vibrating places
- Distorted or unstable places

How to view the monitor

If you use the monitor in too dark a room, your eyes may become tired

Please use it in a reasonably bright room.

Avoid direct rays of the sun to the screen in order to prevent eve fatigue

Your eyes will get fatigued after viewing the monitor for long period of time.

Relax your eyes by viewing away from the monitor from time to time.

Please watch the monitor in downward direction.

Note on image retention

The plasma monitor illuminates phosphor to display images. The phosphor has a finite illumination life. After extended periods of illumination, the brightness of the phosphor will be degraded to such extent that stationary images would burn-in that part of the screen as grayed-out images. Tips to prevent such image retention are

- Do not display images having sharp brightness differences or high-contrast images, such as monochrome characters and graphic patterns,
- Do not leave stationary images appearing for long, but try to refresh them at appropriate intervals of time, or try to move them using screen saver function.
- Turn down the contrast and brightness controls.

How to clean the plasma screen panel of the monitor

Before cleaning the monitor, turn off the monitor and disconnect the power plug from the power outlet.

To prevent scratching or damaging the plasma screen face, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. If it is not enough, then use a cloth with mild detergent. Do not use harsh or abrasive cleaners

How to clean the cabinet of the monitor

Use a soft cloth to clean the cabinet and control panel of the monitor. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth.

Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks

Prevention of an obstacle to Radio receivers

This monitor has been designed pursuant to the international EMI standards. This is to prevent a problem to Radio receivers.

- Keep the monitor away from Radio.
- Adjust Radio antennas in order for the monitor not to receive interference.
- The antenna cable of Radio should be kept away from the monitor.
- Use a coaxial cable for antenna.

You can check if this monitor influences Radio receivers by turning off all other equipment other than the monitor.

If you find a problem receiving Radio when using the monitor, check the instructions mentioned above.

Precautions for the cable connection

- Do ensure that all connections, (including the power plug, extension leads and interconnections between the pieces of equipment), are properly made and in accordance with the manufacturers instructions. Switch off and withdraw the power plug before making or changing
- Confirm the connector is fixed tightly when the signal cable is connected.

Also confirm the screws on the connector are tightened.

- Plug the power cord of the monitor into a different socket from that for other equipment, such as Radio etc..
- Use a plug with ground terminal and make sure that it connects to the ground.

Precaution during transportation

Please pay attention when you transport this monitor because it is heavy.

Furthermore, use the original carton box and its packaging materials when the monitor is transported.

Failure to transport the monitor in any carton except the original carton may result in damage to the monitor.

Save the original carton box and all packing material.

Do not physically impact the remote control.

A physical impact could cause damage or malfunction of the remote control.

- Take care not to drop the remote control.
- Do not place heavy objects on the remote control.

Avoid strong rays.

Any strong rays (such as direct sun rays or room lighting) onto the remote control sensors could invalidate the remote control.

Avoid radio interference.

Any interfering radiation could cause distorted images or noises.

• Avoid radio generator such as a mobile telephone, transceiver, etc. around the monitor.

Set the sound volume at a suitable level.

It is better to keep the volume level low and close the windows at night to protect the neighborhood environment.

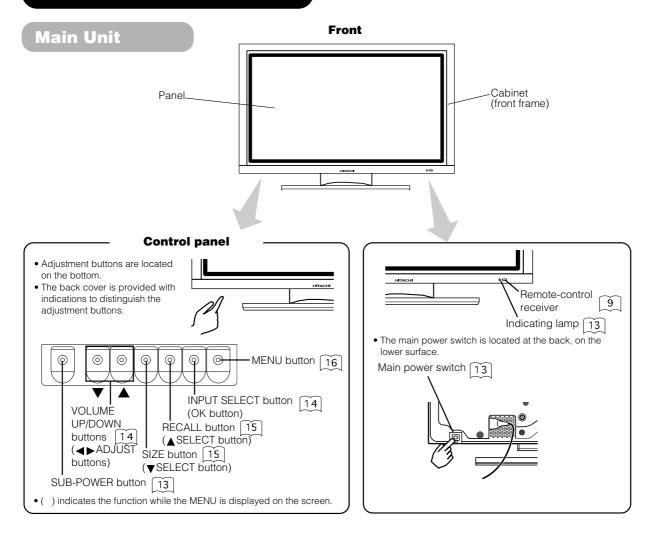
Precautions for the installation

- Do not use makeshift stands and NEVER fix legs with wood screws to ensure complete safety, always fit the manufacturers approved stand or legs with the fixings provided according to the instructions.
- 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.
- This product is designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet that could cause the product to overturn resulting in product damage and/or personal injury.
- Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer
- Only use the attachments/accessories specified by the manufacturer.
- Consult your dealer if you are in any doubt about installation, operation or safety of your equipment.

Other precautions

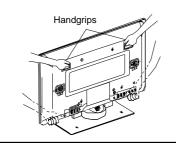
- Do not leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch on the equipment and show your family how to do this. Make special arrangements for infirm or handicapped people
- Disposal of this product may require specific instructions pertaining to your resident region.
- Never guess or take any chances with electrical equipment of any kind it is better to be safe than sorry!

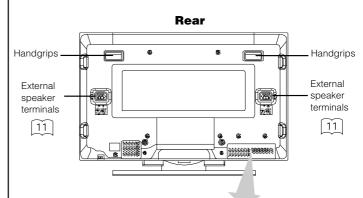
COMPONENT NAMES

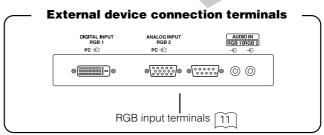


Caution when moving the main unit

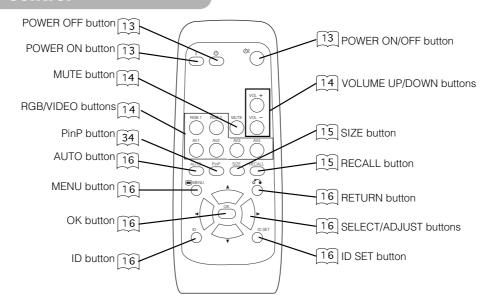
- As this product is heavy, whenever it is moved, two people are required to transport it safely.
- Whenever the unit is moved it should be lifted forwards using the two handgrips at the back, and the unit should then be held at the base on both sides for stability.







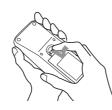
Remote control



Loading Batteries

1. Open the battery cover.

 Slide back and remove the battery cover in the direction of the arrow.



2. Load batteries.

 Load two Size AA batteries included observing the correct polarities.

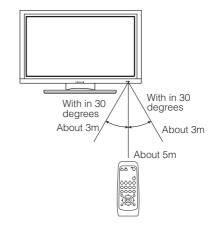


3. Close the battery cover.

 Replace the battery cover in the direction of the arrow and snap it back into place.



Use the remote control within about 5 m from front of the unit's remote-control sensor and within 30 degrees on both sides.



CAUTION

- Do not use new and old batteries together. The batteries could explode or leak, resulting in fires, physical injury, or stains.
- When loading batteries, observe their correct polarities as marked on the product. If loaded in the wrong direction, the batteries could explode or leak, resulting in fires, physical injury, or stains.

ATTENTION

- Do not drop or impact the remote control.
- Do not splash the remote control with water or put it on a wet object to avoid possible failures.
- Before leaving the remote control out of use for an extended period of time, remove the batteries from it.
- If the remote control begins to lack responsiveness, replace the batteries.
- Strong light such as direct sunlight impinging on the photoreceptor of the remote control can cause operational failure. Position this unit to avoid direct contact with such light.

INSTALLATION INSTRUCTIONS

Installation

If you have purchased the model without the stand attached:
 When installing the monitor, use the optional Desk-top Stand (CMPAD25).
 The Desk-top Stand has been used for the illustrations in this manual.

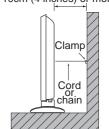
WARNING

Use one of the special mount units to install this product. A mount of insufficient strength or inadequate design can cause overturning or dropping and result in fire, electrical shock or injury. Please note that our company assumes absolutely no responsibility for personal injuries or property damage caused by use of other mount units or improper installation.

A CAUTION

- Installation of the wall mount unit and ceiling mount unit can be dangerous, so do not attempt this work yourself. Ask your dealer to provide the name of a qualified installer.
- In order to prevent an internal temperature increase, maintain a space of 10cm (4 inches: For a desktop setup) or more between the sides and other objects such as walls, etc., so that the ventilation holes are not blocked.(*)

10cm (4 inches) or more*



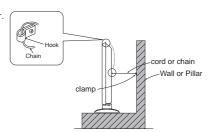
Anti-tumble measures

A CAUTION

Have this unit mounted in a stable place. Take measures to prevent it from tumbling down to avoid possible physical injury.

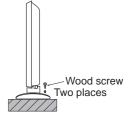
Securing to a wall or pillar

Using a commercially available cord, chain and clamp, secure the set to a firm wall or pillar.



Securing desktop

- 1) Using wood screws (two), fasten the set to the clamping screw holes on the rear of the stand as shown.
- 2) Using commercially available wood screws, secure the set firmly in position.

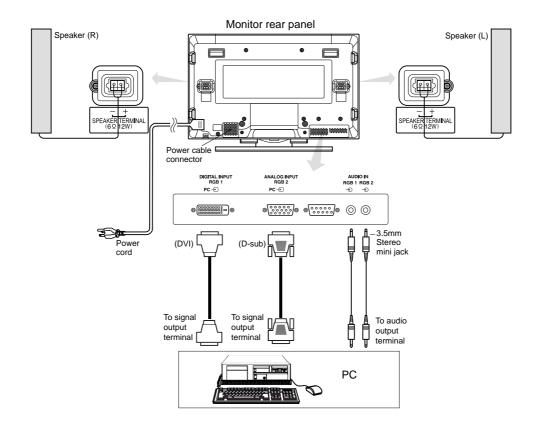


Read SAFETY INSTRUCTIONS (4 to 7) carefully to ensure maximum safety before proceeding to these steps:

- Choose an appropriate site and install the product on a level table where the stand is secure.
- Install the monitor to have ready access to a power socket available.
- Make sure that the power switch of this device is turned off.

Connecting to a PC

- (1) Make sure that the display signal of the personal computer to be used is compatible with the specifications of this device.
 - See "Product Specifications" concerning the specifications of this device. $\boxed{27} \sim \boxed{29}$
- (2) Make sure that the power switch of the personal computer is turned off.
- (3) Connect the signal input terminal (RGB 1 or RGB 2) on the rear panel of this device to the display signal output terminal of the personal computer.
 - Use a cable that fits the input terminal of this device and the output terminal of the personal computer.
 - Depending on the type of personal computer being connected, the use of an optional conversion adapter or the adapter provided with the personal computer may be necessary in some cases. For details, refer to the instruction manual of the personal computer or ask the personal computer manufacturer or your local retail dealer.



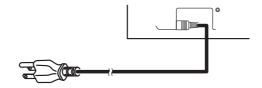
INSTALLATION INSTRUCTIONS (continued)

Mounting the Speaker Unit (option)

Refer to the instruction manual concerning mounting of the optional speaker unit.

Power Cord Connection

Connect the power cord, after completing all other connections.

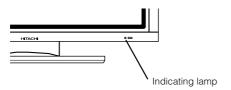


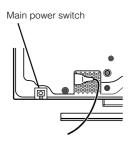
- ① Connect the power cord to this device.
- ② Connect the power cord plug to the power outlet. (The type of plug is different from this drawing for some countries.)

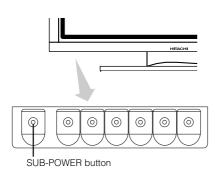


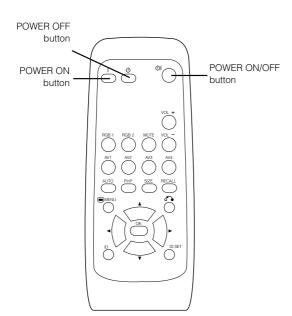
- Use only the power cord provided.
- Do not use a power supply voltage other than that indicated (AC100-240V, 50/60Hz) as this may cause fire or electric shock.

OPERATING INSTRUCTIONS









Turning Power On and Off

- To turn the monitor power ON, press the main power switch on the monitor main unit to ON, and then press the SUB POWER button or the ON/OFF or ON button on the remote control.
- To turn the monitor power OFF, press the SUB POWER button or the ON/OFF or OFF button on the remote control, and then press the main power switch on the monitor main unit to OFF.
 - During normal use, the main power switch is set in the ON position, and the monitor can then be turned ON/OFF using the SUB POWER button or the ON/OFF button on the remote control.

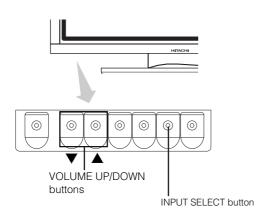
Indicating lamp

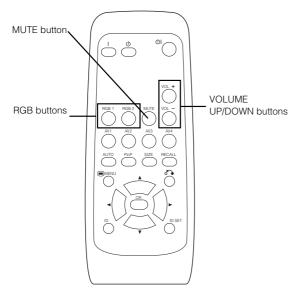
Indicating lamp	Power status	Operating
Off	Off	When the main power switch is set to OFF.
Lights red	Off (standby)	When the main power switch is ON, and the OFF button on the remote control or the SUB POWER button on the underside of the front of the frame is OFF.
Lights green	On	When the main power switch is ON, and the ON button on the remote control or the SUB POWER button on the underside of the front of the frame is ON.
Lights orange	Off (Power Save)	When the main power switch is ON, and the ON button on the remote control or the SUB POWER button on the underside of the front of the frame is ON. However, the state in POWER SAVE mode

ATTENTION

- Avoid repeatedly turning the monitor on and off at short time intervals. Failures might result from such operation.
- Turn off the main power switch before leaving the monitor out of use for an extended period of time.
- If a power failure occurs while the main unit is running, it would be powered on upon recovery from the failure. Turn off the unit main power switch before leaving the main unit.

OPERATING INSTRUCTIONS (continued)





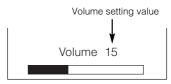
Input Switching

- Input can be switched by pressing the RGB1, RGB2, buttons of the remote control.
- Input can be switched in the sequence of RGB1 → RGB2 by pressing the INPUT SELECT button of the monitor.



Volume Adjustment

The volume can be adjusted by pressing the VOL+ and VOL- buttons of the remote control (or the ▲ and ▼ volume buttons of the monitor unit).

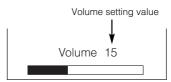


Adjustment status guide display

- When a button is pressed, the volume adjustment status guide will be displayed.
 - The volume will increase when the VOL+ (or ▲) button is pressed while the guide is being displayed.
- The volume will decrease when the VOL- (or ▼) button is pressed while the guide is being displayed.

Audio Mute

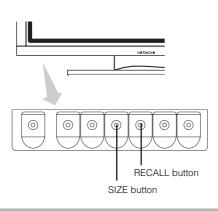
The audio volume can be temporarily mute by pressing the MUTE button of the remote control.

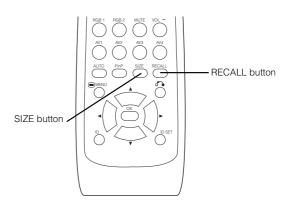


Adjustment status guide display (The display color will change to magenta.)

- When a button is pressed, the volume adjustment status guide (magenta) will be displayed.
 - The volume setting can be lowered by pressing the VOL- button while the audio is mute.
 - The muting can be cancelled by pressing the VOL+ button or MUTE button while the audio is mute.

When the MUTE button of the remote control is pressed again, the audio will be restored and the volume display (green) will appear.





Size Switching

Each time the SIZE button of the remote control or the monitor is pressed, the screen display area will change in sequence and the status will be displayed at the bottom of the screen.

Display area selection diagram (RGB input)

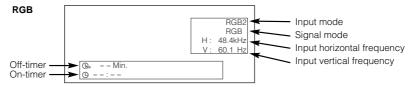
Resolution	Full display			Circular display		
Display	Full	Normal	Real	Zoom1	Zoom2	Zoom3
640 X 480 (VGA) 800 X 600 (SVGA) 1024 X 768						
(XGA) 1280 X 1024 (SXGA)						
1600 X 1200 (UXGA)			* VGA and W-VGA only			

Processes such as compression (thinning) and expansion are performed for the above signal display. Because of this, there is a possibility that flicker may become noticeable on Zoom (1 ~ 3) depending on the display contents. If this occurs, turning the Vertical Filter On 20 can reduce the flicker.

Input Signal Screen Display

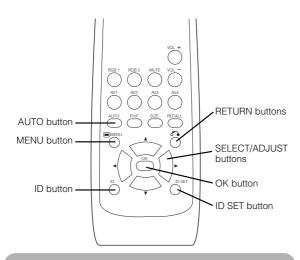
The input signal status can be displayed on the screen by pressing the RECALL button of the remote control or the monitor.

 $\boldsymbol{\cdot}$ The display will go out in approximately 6 seconds.



^{*} Real mode gives the image of the same shape as it is displayed on a computer monitor This mode is only available for VGA (640 X 480) and WVGA (864 X 480).

OPERATING INSTRUCTIONS (continued)



Automatic Adjustment of Screen Position and the Clock

Adjustment of the screen to a position suitable for the PC signal and the clock adjustment can be performed automatically by pressing the AUTO button of the remote control.

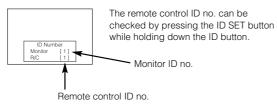


Perform this adjustment for each input (RGB1 or RGB2) and for each signal.

* Depending on the signal, satisfactory adjustment may not be possible in some cases. In such case, adjust by referring to the Setup Menu item.

Independent Operation of Multiple Monitors (ID No)

Setting the ID No. of the remote control allows separate control of up to a maximum of seven monitors. Remote control ID No. 2 (initially ID no. 1) can be set by pressing the ID SET button for 2 sec. or more while holding down the ID button. The number will be incremented $(2\cdots 6\rightarrow 7\rightarrow 1\rightarrow 2)$ when this button pressed continuously.



The ID remote control is operated by pressing the various buttons while holding down the ID button; Operation is possible only when the remote control and monitor ID nos. are the same.

- The remote control can be operated normally by pressing the various remote control buttons without holding down the ID button.
- Set the monitor using the ID No. of Function MENU. 19

Using the Menu Screen (On-screen display system)

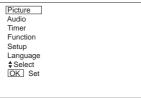
When the MENU button is pressed, the adjustment menu screen will be displayed; from there, PC signal adjustment and setting is possible by using the SELECT button, ADJUST button and OK button.

Refer to 17 - 21 concerning the adjustment items and the settings.

Example: Selecting the Picture screen

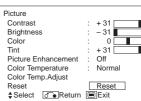
1. Press the MENU button to display the Main Menu screen.





2. Press the OK button to display the Picture Menu screen. (Use the ▲ and ▼ SELECT buttons to select other items.)





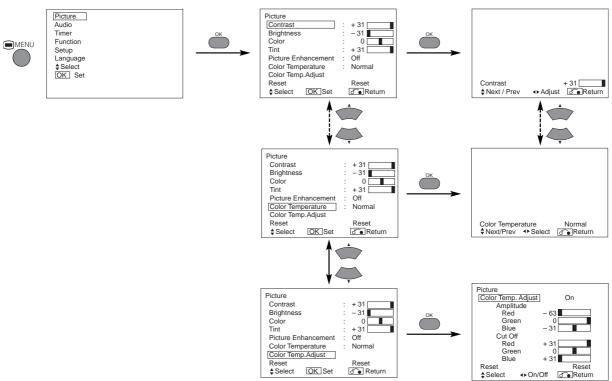
 Use the ▲ and ▼ SELECT buttons to select the item to be adjusted and then use the ◀ and ▶ ADJUST buttons to adjust (example: Contrast).





- Press the RETURN button to return to the previous screen.
- If there is no operation for a period of one minute, the Adjustment Menu screen will be closed automatically.

PICTURE MENU



		I	I		
Selected c	haracters	◀	>	Setup hint	
Contrast		Narrows the gap between brightness and darkness.	Broadens the gap between brightness and darkness.	Adjust for maximum visibility to suit the ambient brightness. This can adjust further till [+40] by pressing and holding ▶ cursor button at [+31]. The color for [+32] to [+40] numbers will change from white to magenta. This special mode is better for dark scenes. For brighter scene some parts of the picture might not be clear. We recommend to set at [+31]. "Panel Life" in the Function Menu should be set to Normal when Contrast setting is adjusted.	
Brightness		Black is subdued for increased overall darkness.	Black is set off for increased overall brightness.	Adjust to taste.	
Color		Darkens colors.	Lightens colors.	Adjust to taste.	
Tint		Enhances red and weakens green. Enhances green and weakens red.		This is not available to adjust when receiving PAL/SECAM signal. In this case the character will be grayed out. Adjust for most realistic skin color.	
Picture Enhancement		Off ←→ Low ←→ Middle ←→ High		Sets the clarity of small details to the desired level.	
Color Temperature Cool ←→ Normal ←→ Warm ←→ BI		Warm ←→ Black / White	Normally set to Normal.		
Color Temp.	olor Temp. Adjustment → Off ← On ←		→ On ←	Turn On when you wish to change color temperature is required to adjust depending on the user's preference.	
Amplitude	Red	Brighter scene is decreased in reddish color.	Brighter scene is increased in reddish color.		
	Green	Brighter scene is decreased in greenish color.	Brighter scene is increased in greenish color.		
	Blue	Brighter scene is decreased in bluish color.	Brighter scene is increased in bluish color.	Adjust color temperature depending on the user's preference. These settings are independently stored in each of the 4 Color Temperature	
Cut Off	Red	Dark scene is decreased in reddish color.	Dark scene is increased in reddish color.	modes.	
	Green	Dark scene is decreased in greenish color.	Dark scene is increased in greenish color.		
	Blue	Dark scene is decreased in bluish color.	Dark scene is increased in bluish color.		
Reset		(off the function)	(waiting to reset)	The original factory settings for the items of this Menu page can be restored by pressing the OK button.	

OPERATING INSTRUCTIONS (continued)

AUDIO MENU



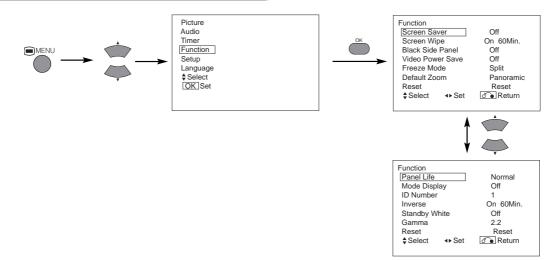
Selected characters	•	>	Setup hint
Audio Mode	Movie → Music → Speech → Favorite ←		Movie: This selects the audio suitable for Movie. Music: This selects the audio suitable for Music. Speech: This selects the audio suitable for News, Talk show etc. Favorite: This mode should be adjusted depending on user's preference.
Treble	Suppresses treble.	Enhances treble.	Adjust to taste.
Bass	Suppresses bass.	Enhances bass.	Adjust to taste.
Balance	Suppresses right-side sound.	Suppresses left-side sound.	Adjust to taste.
SRS TruBass	Off ←→ Low ←→ Middle ←→ High ←		SRS TruBass takes advance of the ability of the human ear to be able to distinguish between two different tones. By using this ability, TruBass gives enhanced bass sound that otherwise would not be heard. Adjust it depending on the user's preference.
Matrix Surround	Off On		This features the spacious sound effects of a stadium.
Perfect Volume	→ Off → On ←		This will automatically adjust volume so each channel and input has the same average volume level.
Reset	(off the function)	(waiting to reset)	The original factory settings for the items of this Menu page can be restored by pressing the OK button.

TIMER MENU



Selected characters	•	>	Setup hint		
Off Timer	Min. ← → 30Min. ← → 60Min. 120Min. ← → 90Min. ← 1				This function automatically sets the power to standby status when the indicated time period has elapsed.
On Timer	(:) hours	(:) minutes	This automatically sets the power from standby to ON when the indicated time period has elapsed. The settable time is 00:00~11:59. Input the required time by SELECT buttons on the remote control.		

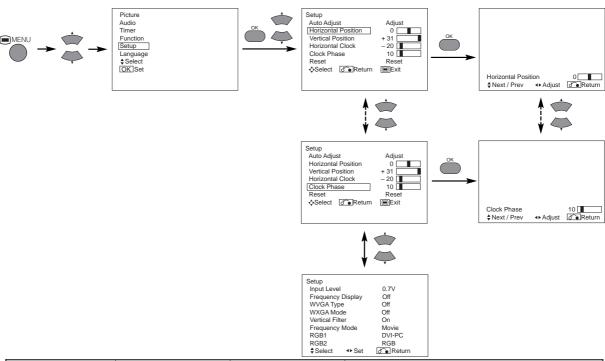
FUNCTION MENU



Selected characters	◀	>	Setup hint
Screen Saver	→ Off → → 5Mir → 60Min. → 40	n. ←→ 10Min. ← Min. ←→ 20Min. ←	This moves the picture around the screen in small amounts, at set intervals, to reduce the panel image retention. This is where stationary objects, such as screen logos, leave a slight image visible after they should have disappeared.
Screen Wipe	On	60Min.	This is used to reduce the panel image retention that can occur with stationary pictures by the white field signal. Select On (continuous operation) or 60 Min. (time limit operation) and press the OK button. Press the MENU or RETURN button on the remote control to return to normal viewing.
Black Side Panel	_→ Off →	→ On ←	This turns the gray sidebars On/Off when watching normal mode screen size area. It is always set to Off when the monitor powered On. It is recommended to set to Off to reduce the panel image retention.
Video Power Save			Optional (grayed out)
Freeze Mode			Optional (grayed out)
Default Zoom			Optional (grayed out)
Reset	(off the function)	(waiting to reset)	The original factory settings for the items of this Menu page can be restored by pressing the OK button.
Panel Life	Normal ← → Extend 2		This function is to suppress the contrast of the screen regardless of the Contrast setting in the Picture Menu. By this control, power consumption can be reduced or degradation of a panel can be mitigated. The order of power consumption is Extend 2 < Extend 1 < Normal. If the Contrast setting is changed when this item is set to Extend 1 or 2, it will be changed to Normal automatically.
Mode Display	→ Off ←→ On ←		This can display the Input Signal Screen Display every time the input mode and signal mode are changed. Set to OFF if the Input Signal Screen Display is not needed when switching signals.
ID Number	1 - 2 -	→3 → 4 6 → 5 →	Assigns ID nos. to the monitors so that they can be controlled individually (up to 7 monitors can be controlled).
Inverse	On	60Min.	This function can change each level of RGB signal invert to reduce the panel image retention. When this function is required to use, select On (continuous operation) or 60Min. (time limit operation) and press the OK button. And press the Menu or Return button to exit.
Standby White	Off ←→ 15Mi → 120Min. ←	n. ←→30Min. ← →60Min. ←	This function is also provided against the image retention. If time is set for this item, the screen changes into the white pattern when the monitor enters power save mode, and it will continue for the period of setting time.
Gamma	→2.2 ←	→ 2.8 ←	Normally set to 2.2.

OPERATING INSTRUCTIONS (continued)

SETUP MENU



		₹Select	◆► Set	[♂ 6] Return	
Selected characters	◀	>			Setup hint
Auto Adjust*	(Menu)	Adjust Pressing the OK button here, Automatic regulation is started.		ntal Position, Ver are adjusted au	rtical Position, Horizontal Clock and Clock tomatically.
Horizontal Position	Moves the horizontal position to left.	Moves the horizontal position to right.			play position. or RGB2. It's not available (grayed out) for
Vertical Position	Moves down the vertical position.	Moves up the vertical position.	, rajaot		olay position. or RGB2. It's not available (grayed out) for
Horizontal Clock	Reduces the dot clock frequency (shrinks the right side).	Increases the dot clock frequency (expands the right side).	(This function is only for RGB2. It's not av		naracter clarity. or RGB2. It's not available (grayed out) for
	-	<u> </u>	RGB1.		
Clock Phase	Slows the dot clock phase (shifts slightly to left).	Advances the dot clock phase (shifts slightly to right).	Adjust	Adjust for clear character visibility. (This function is only for RGB2. It's not available (gray)	
	+	→	RGB1.)		
Reset	(off the function)	(waiting to reset)			ettings for the items of this Menu page can be he OK button. (This is effective only for RGB2.)
Input Level	→ 0.7V ←	→1.0V ←			f white is found to spread across the screen, set ve only for RGB2.)
Frequency Display	_→ Off ◆	→ On ←		s to Off if the fred v is not reauired	quency information of the Input Signal Screen .
WVGA Type	→ Off ◆	→ On ←			or W-VGA signal. e display area mode can be selected Full or
WXGA Mode	Off ←→ 1280 X 768 ←→ 1366 X 768				or (PC) WXGA signal. The display area 3] or [1366 X 768].
Vertical Filter	Off ←→ On ←		Turn O	n when concern	ned about screen flicker.
Frequency Mode	→ Movie → PC ←		Set to I	Movie when view	ving moving images on a personal computer.
RGB1		Optio	nal (gray	/ed out)	
RGB2		Optio	nal (gray	/ed out)	

^{*} Depending on the type of signal displayed, displays may not be optimized through automatic adjustment. Adjust manually to optimize them.

LANGUAGE MENU



Select a language by ▼ ▲ SELECT buttons and press the OK button.

OTHER FEATURES

Automatic Store

Approximately 1 sec. after adjustment is completed, the adjustments will be recorded as shown in the table below.

Menu	Display	Registration condition
Picture	Contrast	For every input function, 1 setting
	Brightness	is registered.
	Color	
	Tint	
	Picture Enhancement	
	Color temperature	
	Color Temp. Adjust	
	R Amplitude	For every Color Temperature, 1
	G Amplitude	setting is registered.
	B Amplitude	
	R Cut Off	
	G Cut Off	
	B Cut Off	
Audio	Audio Mode	1 setting is registered.
	Treble	For every Audio Mode, 1 setting is
	Bass	registered.
	Balance	1 setting is registered.
	SRS TruBass	
	Matrix Surround	For every Audio Mode, 1 setting is registered.
	Perfect Volume	

Menu	Display	Registration condition
Function	Screen Saver	1 setting is registered.
	Screen Wipe	(not registered)
	Black Side Panel	(not registered)
	Panel Life	1 setting is registered.
	Mode Display	
	ID Number	
	Inverse	
	Standby White	
	Gamma	-
Setup	Auto Adjust	(not registered)
	Horizontal Position	For every signal Mode, 1 setting is
	Vertical Position	registered. (Only for RGB2)
	Horizontal Clock	
	Clock Phase	
	Input Level	1 setting is registered.
	Frequency Display	_
	WVGA Type	
	WXGA Mode	
	Vertical Filter	
	Frequency Mode	
Language		1 setting is registered.

- The previously recorded items will be lost.
- The signal mode can be identified by the horizontal/vertical sync frequency and the sync signal polarity. Different signals with which all the elements are the same or similar will be handled as the same signal.

OTHER FEATURES (continued)

Signal Check

Changes in the signal status are displayed on the screen as they arise.

Status	Display	Action	RGB
When Mode Display is set to ON, the input signal is switched or when the RECALL button is pressed.	A guide is displayed for the input terminal and the horizontal and vertical sync frequency.		(Gr - (G) -
When the sync signal is no longer detected.	A guide displays No Sync. Signal, and Power Save (for approx. 5 sec.) When the condition continues where the sync signal cannot be detected, indicator lamp of power source changes in orange and the mode switches	Recheck the personal computer power switch status and the connection status.	
When the input signal does not match the monitor specifications or is in an unstable status.	A guide displays Invalid Scan Freq.	Recheck the input signal specifications.	

Power Save Mode

When the RGB1, RGB2 input is selected

• When this unit is connected to a VESA DPMS computer, the Power Save (Off) mode can be set to be activated automatically when the computer is not being used to reduce power consumption by this unit.

RGB H: 48.4kHz V: 60.1 Hz

! No Sync. Signal

! Invalid Scan Freq.

RGB sync signal	Horizontal	Yes	No Yes		No
HGB sync signal	Vertical	Yes	Yes No		No
PC s	ignal	Active (normal display)	Blank (no display)		
Operation	on mode	On	Off		
Indication	ng lamp	Lights green	Lights orange		
Power cor	nsumption	310W	3W or less (RGB1) 1W or less (RGB2 ; 100V ≦AC ≦120V) 3W or less (RGB2 ; 120V <ac td="" ≦240v)<=""></ac>		

Returning to operating status

• Operate the personal computer, or press either the INPUT SELECT button of the main unit or the RGB1/RGB2 buttons of the remote control.

IMAGE RETENTION OF PLASMA DISPLAY

There are different characteristics that result in panel image retention depending on how the plasma display is used. Situations and effective usage methods related to ghosting are provided below.

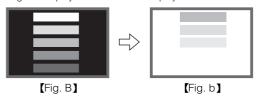
Image retention characteristics of a plasma display

The image retention phenomenon of a plasma panel occurs due to partial phosphor degradation arising from partial character and figure display.

For example, when the character image as shown in Fig. A at the right is continuously displayed for a long period of time, the only part of the phosphor (Red,Green, Blue) that will degrade will be the color of the applicable character display portion. Consequently, when a white image is displayed on the entire screen as shown in Fig. a, the character marks displayed up to that time will become a color difference visible to the eye, but the phosphor will never burn.



- ■The degree of image retention is proportional to the brightness of the characters and figures displayed as well as the display time.
 - The tendency of the phosphor is to degrade more the brighter the characters
 and figures are displayed. When images of figures with different levels of
 brightness, as shown in Fig. B, are continuously displayed for a long period of
 time, it becomes easier for image marks at locations when the brighter figures
 are displayed to be noticeable.



* The image retention images in this document are exaggerated for the purpose of explanation. The actual manner in which the image retention is seen differs depending on the operation time and brightness.

Methods to Reduce the Occurrence of Image Retention

- Lower the Contrast and Brightness settings of the plasma display as much as possible.

 A function is provided in the display that controls the brightness of the screen to reduce degradation of the panel. Using this function makes it possible to reduce image retention.

 (Refer to Panel Life (Extend 1.or Extend 2 shown on 19))
- Set the plasma monitor to an "Screen Wipe" or "Inverse" display.

 The occurrence of image retention when displaying images of identical patterns, such as static images, for long periods of time can be reduced by displaying a reversed color or completely white screen for about 1 ~ 2 hours after terminating the display.

 (Settings can be made using Screen Wipe and Inverse of Function MENU shown on 19))
- Using in combination with moving images
 Since the degradation of the fluorescent material progresses comparatively uniform for moving images, the occurrence of partial image retention can be controlled. We recommend to use in combination with moving images such as a DVD.
- * Please be careful since image retention will occur if display is left in a two screen display state for a long period of time.
- * Television broadcasts include images displayed for long periods of time in which the left and right or top and bottom of the image are cut and broadcast station name or time are displayed for a long period of time at the same portion of the screen. Image retention in these portions can be expected to occur, so please be aware.

NOTES

About screen defects

 High precision technology is used in the making of plasma panels but there may be dark spots (points that do not illuminate) and bright spots (points that are too bright) in some cases. These do not indicate a malfunction.

About residual images

• In some cases, residual images may remain after the short-term display of still images and another image is displayed, but these will disappear and return to normalcy. This is not a malfunction.

About the panel screen

• Plasma displays display images by means of electrical discharges inside the panel. Because of this, the temperature of the panel surface may rise in some cases. Also, plasma displays are made of finely processed glass. A reinforced glass filter is installed over the panel surface but avoid strong impact because there is still danger of glass breakage.

TROUBLESHOOTING

Symptoms That Seemingly Appear to be Failures

Make the checks suggested below depending on the symptoms observed. If the symptoms remain uncorrected, contact your dealer.

M WARNING	l
Z: WARNING	

Customer servicing can be hazardous.

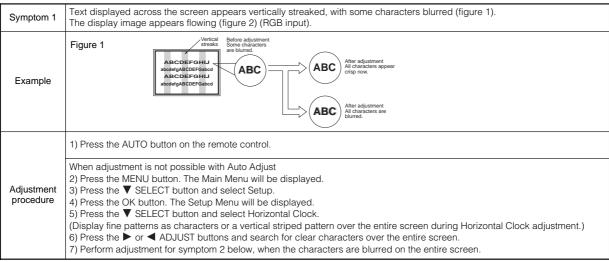
Symptom		Point to check	See page
No picture with the power-indicating lamp off.		Check the way the power cable is connected. Press the power switch.	12 13
The message "No Sync. Signal" or "Power Save" is displayed. No picture with the power indicating lamp lights in orange.	! No Sync. Signal	No sync signal is detected. Check the way the signal cable is connected. Make sure that the switch of the computer, imaging equipment, etc., is turned on. Make sure the computer is not in the power-save mode. Check to see if the input selection matches the connection terminal.	11
The message "Invalid Scan Freq." is displayed.	I Invalid Scan Freq.	An input signal is not received normally. Check to see if the input signal matches the monitor specifications. Check the way the signal cable is connected.	28 29
The power indicating lamp is normally lit but no picture .		Check the contrast and brightness settings (adjust them for higher contrast and brightness). Check the way the signal cable is connected.	[11] [17]
The display image appears flowing slantwise. Text displayed across the screen appears vertically streaked, with the characters in vertical columns blurred.		Adjust the dot clock frequency and phase. (Adjust the dot clock frequency first, the dot clock phase next.) (RGB input)	20 26
Text displayed across the screen appears blurred. A fine pattern flickers when displayed on the screen.	A ***	Adjust the dot clock phase for the clearest viewing. (RGB input)	20
The remote control does not work.		Check to see if the batteries are loaded in the remote control in opposite direction. Check to see if the batteries in the remote control are OK.	9

Symptom	Point to check	See page
The temperature of the display panel surface is high.	The plasma display panel is lighting the phosphors by the discharge of internal radiation. In some cases, this may cause the temperature of the panel surface to increase. Please note that this is not a malfunction.	-
There are locations on the screen that are different from the periphery (*). *Points that do not light, points with brightness different from that of the periphery, points with color different from that of the periphery, etc.	High-precision technology is used to manufacture the plasma display panel, However in some cases, there are minor defects in some parts of the screen. Please note that this is not a malfunction.	-
Vertical stripes appear, depending on the screen contents.	The plasma display panel is lighting the phosphors by the discharge of internal radiation. Depending on the screen contents, in rare cases this may cause vertical stripes to appear because of failure to light. Please note that this is not a malfunction.	-
Coarse horizontal stripes appear in FULL display.	Adjusting the Clock Phase will reduce the horizontal stripes. (RGB input)	20
Flickering in the form of horizontal lines oscillating up and down. (PC INPUT MODE only)	If the direct frequency from the computer is below 85Hz, try a higher frequency (upper limit 85Hz). There may be a slight attenuation of the current image. Try turning the Vertical Filter On. For this case however, the vertical resolution will drop.	20
The fan motor is noisy. (Fan application model only)	Use the fan that controls the temperature in the main body to lower the temperature of this unit. If the ambient air temperature increases, the fan will start, the RPMs will increase and motor noise will grow louder. This is not a malfunction though.	-
The top of the monitor heats up.	When used for long periods of time, the top of the monitor may heat up. This is not a malfunction.	-
Text characters are displayed with varying thicknesses.	The thicknesses of characters and lines may vary if images with a vertical resolution greater than 480 lines are displayed; however, this is not a malfunction.	-
The brightness contrast in the display seems not bright enough.	The ambient temperature of the monitor may be low. When used in the ambient temperature less than about 15 degrees, it may cause lower luminance. It happens in an operation of the panel protect circuit, and this is not a malfunction. The luminance will recover by turning on electricity for a while.	-
The brightness contrast in the display seems not bright enough. (RGB input)	Setup-Frequency in RGB input may be set as PC mode. When set as PC mode, the luminance becomes lower about 10% than it is set as Movie mode. This is not a malfunction though. If you do not mind flickering on the display, please use in Movie mode.	20

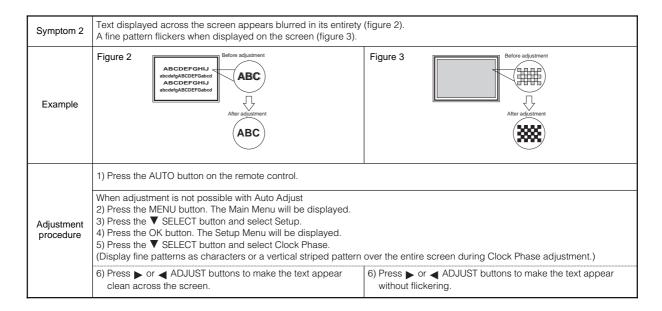
TROUBLESHOOTING (continued)

Actions to Correct Abnormal Displays

Depending on the kind of system equipment used, images may not be displayed normally. In this case, make the adjustments suggested below. (only for RGB2)



• The display image may be momentarily disturbed during clock adjustment but this is not a failure.



PRODUCT SPECIFICATIONS

Product specifications and designs are subject to change without notice.

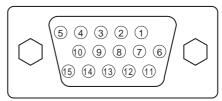
Panel	Display dimensions	Approx. 42 inches (920 (H) x 518 (V) mm, diagonal 1059mm)				
	Resolution	852 (H) x 480 (V) pixels				
Net dimensio (excluding Sp	ns eakers/Stand)	1030 (W) x 636 (H) x 91 (D) mm				
Net weight (excluding Sp	eakers/Stand)	34.2 kg				
Ambient	Temperature	Operating: 5°C to 35°C, Storage: -15°C to 60°C				
conditions Relative humidity		Operating: 20% to 80%, Storage: 20% to 90% (non-condensing)				
Power supply	,	AC100 - 240V, 50/60Hz				
Power consu	mption/at standby	310W / <3W				
Audio output		$12W + 12W (6\Omega)$				
(RGB input)						
	Input terminals	RGB1 DVI input terminal (DVI-D) RGB1 audio input terminal (3.5mm Stereo Mini Jack) RGB2 analog RGB input terminal (D-sub 15-pin) RGB2 audio input terminal (3.5mm Stereo Mini Jack)				
Input signals	Video signals	0.7 V/1.0 Vp-p, analog RGB (Recommended Signal)				
	Sync signals	H/V separate, TTL level [2K Ω] H/V composite, TTL level [2K Ω] Sync on green, 0.3 Vp-p [75 Ω]				
Recommende	d signal	44 modes 28 29				

[•] The monitor takes at least 30 minutes to attain the status of optimal picture quality.

Signal Input

RGB terminal (D-sub 15-pin connector)

Pin	Input signal						
1	R						
2	G or sync on green						
3	В						
4	No connection						
5	No connection						
6	R.GND						
7	G.GND						
8	B.GND						
9	No connection						
10	GND						
11	No connection						
12	[SDA]						
13	H. sync or H/V composite sync						
14	V.sync. [V.CLK]						
15	[SCL]						



 When different kinds of input signals are simultaneously input to the monitor via a graphics board or the like, the monitor will automatically select the signals in the following priority order:

Sync signal type	Priority
H/V separate sync.	1
H/V composite sync.	2
sync.on Green *	3

^{*}Even in the case of the recommended signals shown on the following page, there may be instances when correct display is not possible. In this case, use H/V separate sync, H/V composite sync.

PRODUCT SPECIFICATIONS (continued)

Signal Input (continued)

DVI terminal (DVI-D)

Pin	Input signal	Pin	Input signal
1	T.M.D.S. Data2-	14	+5V Power
2	T.M.D.S. Data2+	15	Ground (for+5V)
3	T.M.D.S. Data2/4 Shield	16	Hot Plug Detect
4	T.M.D.S. Data4-	17	T.M.D.S. Data0-
5	T.M.D.S. Data4+	18	T.M.D.S. Data0+
6	DDC Clock	19	T.M.D.S. Data0/5 Shield
7	DDC Data	20	T.M.D.S. Data5-
8	No Connect	21	T.M.D.S. Data5+
9	T.M.D.S. Data1-	22	T.M.D.S. Clock Shield
10	T.M.D.S. Data1+	23	T.M.D.S. Clock+
11	T.M.D.S. Data1/3 Shield	24	T.M.D.S. Clock-
12	T.M.D.S. Data3-	Frame	GND
13	T.M.D.S. Data3+		

\	1	2	3	4	5	6	7	8	
1	9	10	11	12	13	14	15	16	/
1	17	18	19	20	21	22	23	24	

Recommended Signal List

With Digital RGB signal input (RGB1 input)

		Signal mod	е	Horizontal frequency	Dot clock frequency	
No.	Signal Name	Vortical fraguency		(kHz)	(MHz)	Remarks
1	VGA	640 X 400	70.08	31.47	25.18	
2	l vga	640 X 480	59.94	31.47	25.18	
3	W-VGA	864 X 480	59.94	31.47	34.24	
4		640 X 480	72.81	37.86	31.50	
5		640 X 480	75.00	37.50	31.50	
6		640 X 480	85.01	43.27	36.00	
7		800 X 600	56.25	35.16	36.00	
8		800 X 600	60.32	37.88	40.00	
9	VESA	800 X 600	72.19	48.08	50.00	
10		800 X 600	75.00	46.88	49.50	
11		800 X 600	85.06	53.67	56.25	
12		1024 X 768	60.00	48.36	65.00	
13		1024 X 768	70.07	56.48	75.00	
14		1024 X 768	75.03	60.02	78.75	

 $[\]bullet \ \text{Make sure that the signal of the equipment to be connected is compatible with the specifications of this list. } \\$

		Signal mod	е	Harizantal fraguency	Det eleek fragueney	
No.	Signal Name	Resolution	Vertical frequency (Hz)	Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
1	V/C A	640 X 400	70.08	31.47	25.18	
2			59.94	31.47	25.18	
3	W-VGA	864 X 480	59.94 31.47		34.24	WVGA type : On
4		640 X 480	72.81	37.86	31.50	
5	1 [640 X 480	75.00	37.50	31.50	
6	1 [640 X 480	85.01	43.27	36.00	
7	1 [800 X 600	56.25	35.16	36.00	
8	1 [800 X 600	60.32	37.88	40.00	
9	1 [800 X 600	72.19	48.08	50.00	
10	1 [800 X 600	75.00	46.88	49.50	
11	1 [800 X 600	85.06	53.67	56.25	
12	1 [1024 X 768	60.00	48.36	65.00	
13	VESA	1024 X 768	70.07	56.48	75.00	
14	1 [1024 X 768	75.03	60.02	78.75	
15	1 [1024 X 768	85.00	68.68	94.50	
16	1 [1152 X 864	75.00	67.50	108.00	
17	1 [1280 X 1024	60.02	63.98	108.00	
18	1 [1280 X 1024	75.03	79.98	135.00	
19	1 [1280 X 1024	85.02	91.15	157.50	
20	1 [1600 X 1200	60.00	75.00	162.00	
21	1 [1600 X 1200	75.00	93.75	202.50	
22	1 [1600 X 1200	85.00	106.25	229.50	
23		640 X 480	66.67	35.00	30.24	
24	Macintosh	832 X 624	74.55	49.72	57.28	
25	Macintosh	1024 X 768	74.93	60.24	80.00	
26] [1152 X 870	75.06	68.68	100.00	
27		1280 X 768	59.833	47.986	81.00	
28	W-XGA	1280 X 768	69.997	56.137	94.760	
29	1 ***-^\GA	1280 X 768	59.876	47.776	79.50	WXGA Mode:(1280x768)
30	1	1366 X 768	60.015	47.712	89.50	WXGA Mode:(1366x768)

[•] The type of video board or connecting cable used may not allow for correct displays adjustment of Horizontal Position, Vertical Position, Horizontal Clock and Clock Phase.

[•] The monitor may fail to display an animation image correctly when a signal having a vertical frequency of 85Hz or higher is input to it.

[•] The monitor differentiates the signal modes according to the horizontal and vertical frequencies and the horizontal and vertical sync signal

polarities. Note that different signals having all these elements alike may be handled as the same signal.

• Displaying images with more than 480 lines of vertical resolution at Full diplay (compressed display) can result in the interpolation of stripes.

SUPPLEMENT

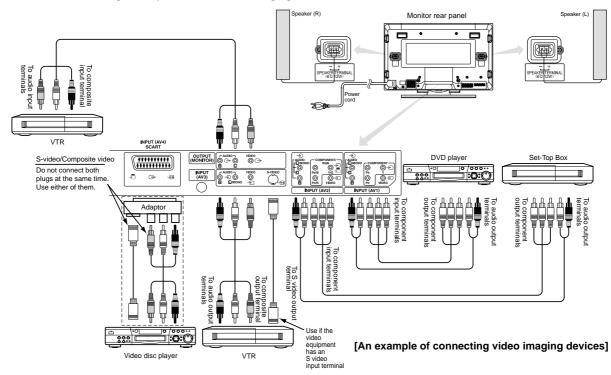
Optional Video Unit Function

Additional functions when the optional video unit is installed are as follows: ($\overbrace{31}$ \sim $\overbrace{40}$)

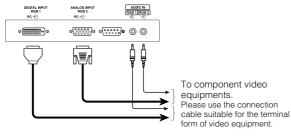
INSTALLATION INSTRUCTIONS

Connecting to a Video Imaging Device

- (1) Make sure that the power switch of the monitor is turned off.
- (2) Make sure that the power switch of the imaging device is turned off.
- (3) Use a commercially available cable and connector to connect the signal input terminal on the rear panel of this device and the signal output terminal of the imaging device.



With RGB component setup



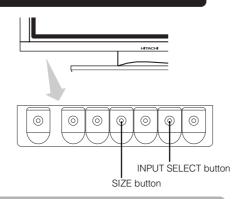
- If video equipment with an S video output terminal is used, cabling by the S video cable is recommended to provide finer video quality. (If an S video input terminal and a video input terminal of AV3 connect to the monitor at the same time, S video input would govern.)
- If the OUTPUT (MONITOR) terminal is connected to an external monitor with a 75 Ohm terminal, it is possible to view the same image as on the main unit. But it is possible to monitor only the composite video signal from AV1, AV2, AV3 or AV4 input that is displayed on the screen at the time.
- If the adaptor is applied to AV4 input as shown in the drawing, it is not possible to receive RGB signal.

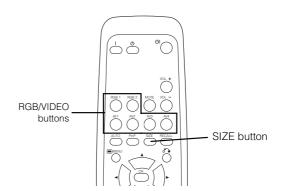
Applicable video signals for each input terminal (See PRODUCT SPECIFICATIONS for details. 40)

Terminal		RCA/SCART		DVI		D-sub		Remarks	
Signal	CVBS	S-video	Component	RGB	PC	STB	RGB	Component	
AV1	0		0						
AV2	0		0	0					Refer to Setup Menu. 38
AV3	0	0							
AV4	0	0		0					Refer to Setup Menu. 38
RGB1					0	0			Refer to Setup Menu. 39
RGB2							0	0	Refer to Setup Menu. 39

(○: Available)

OPERATING INSTRUCTIONS





Input Switching

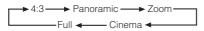
- Input can be switched by pressing the AV1, AV2, AV3, AV4, RGB1 or RGB2 buttons of the remote control.
- Input can be switched in the sequence of AV1 → AV2
 → AV3 → AV4 → RGB1 → RGB2 by pressing the
 INPUT SELECT button of the monitor.



Size Switching

Each time the SIZE button of the remote control or the monitor is pressed, the screen display size will change in sequence and the status will be displayed at the bottom of the screen.

• During VIDEO signal input (AV1, AV2, AV3, AV4, RGB1 (set to [DVI-STB]) and RGB2 (set to [Component]))



• The size will fix as Full mode and not change when receiving the component signal of 1080i/50, 1080i/60 or 720p/60.



Display size selection diagram

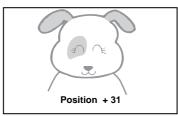
When you want to	Set the display size to	Input signal	Display screen	Remarks
Play a 4:3 image in a 16:9 screen faithfully.	4:3		$\circ\bigcirc\circ$	Blanking occurs on both sides.
Play a 4:3 image in a 16:9 screen with the height and width of the middle of the screen enlarged on equal scales and with both sides appearing somewhat enlarged.	Panoramic	(4:3 signal)	000	
Play a 16:9 VISTA size image in the 4:3 image faithfully reproduced on the 16:9 screen.	Zoom	(Vista)	$\boxed{\circ\bigcirc\circ}$	The 4:3 image is called a letterbox image. In some cases, some slight blanking may remain at the top and bottom.
Play a 21:9 Cinema size image in the 4:3 image expanded vertically on the 16:9 screen.	Cinema	(Cinema)	$\boxed{\circ\bigcirc\circ}$	In some cases, some slight blanking may remain at the top and bottom.
Play a 4:3 image faithfully in a 16:9 screen in the standard vertical size and horizontally squeezed.*	Full	(Squeeze)	000	* An image with an aspect ratio of 16:9 shrunk horizontally to 4:3 to display in a 4:3 screen

Vertical picture position can be adjusted for [Panoramic], [Zoom] and [Cinema] mode as follows.

- 1. Press SIZE button and ▲ ▼ SELECT buttons during picture size display.
- 2. Position display will appear.
- 3. Adjustment range of each picture size are as shown below.

[Panoramic] - 12 to + 12 [Zoom] and [Cinema] - 31 to + 31

4. When 1080i/50 or 1080i/60 component signal is received, vertical position can be adjusted only one step up. (The range: 0 to +1)



Press A



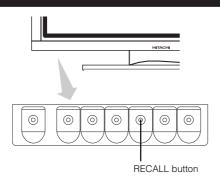
Press ▼

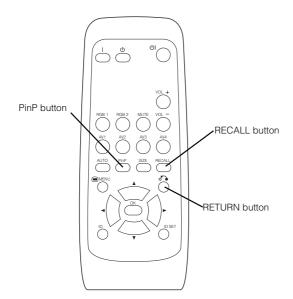
ATTENTION

Using a wide-screen monitor

- This monitor has a screen mode selection feature. If an incompatible screen mode is selected to play certain software, such as a TV program, the image would appear different from the original. Take this into consideration when making screen mode choices.
- Use of this monitor in its enlarged display mode with the wide feature enabled in coffee shops, hotels and other establishments for commercial or pubic viewing purposes could infringe on the copyright holder's right protected by Copyright Law.
- When a normal 4:3 image is displayed over the entire screen in the Panoramic mode, parts of the periphery of the image may disappear and/or appear distorted in some cases. Use the 4:3 mode to view images, which were created in 4:3 mode. This mode allows 4:3 content to be viewed without picture distortion.

OPERATING INSTRUCTIONS (continued)





Displaying MULTI PICTURE

If the PinP button on the remote control is pressed MULTI PICTURE will display.

Activating the P-in-P mode from the RGB input screen

Pressing the PinP button one time will display 2 pictures.

- This mode can be available from RGB1(DVI-PC) and RGB2(RGB) input
- The speaker icon can be shifted up and down by pressing the ◀ and ► SELECT buttons; the audio of the video will be output from the side on which the speaker icon is located.
- The sub-screen position can be selected up and down by pressing ▼ ▲ SELECT buttons.
- The sub-screen can be selected with the AV1, AV2, AV3, and AV4 buttons from the status that the speaker icon appears on the left side of AV* as shown in the diagram to the right.



- Pressing the PinP button again or the RETURN button will cancel the 2 pictures display.
- "Frequency Mode" in the Setup Menu should be set to Movie when sub-screen is the component signal of 1080i/50 or 1080i/60.

AV1: Displays the VIDEO input signal of the sub-screen

RGB2

Activating the Split mode from the video input screen

Pressing the PinP button one time will display 2 pictures.

- The speaker icon can be shifted left and right by pressing the ◀and ▶ SELECT buttons; the audio of the video will be output from the side on which the speaker icon is located.
- The same video input mode cannot be selected for both screens at the
- 4) AV1
- Pressing the PinP button again or the RETURN button will cancel the 2 pictures display.
- When the Video input is set to RGB Video, this Split mode is not possible.
- Refer to the table for 2 pictures (Split) mode.

Input termina	ıal		AV.	1 ∼AV4			AV1, A	V2		RGB1	RGB2
	Main	Sub	PAL SECAM	NTSC3.58 NTSC4.43	576i 576p	480i 480p	1080i/50	1080i/60	720p/60	STB	Component
AV1	PAL, SE	ECAM	0	0	0	0	0	0	0		
~AV4	NTSC3.5	58/4.43	0	0	0	0	0	0	0		
	576i, 5	576p	0	0							
2014	480i, 4	480p	0	0							
AV1 AV2	1080	i/50	0	0							
=	1080	i/60	0	0							
	720p	/60	0	0							
RGB1	ST	В									
RGB2	Compo	onent	0	0	0	0	0	0	0		



(: Available)

NOTE

2 Pictures (Split)

- Even if the input of the horizontal / vertical synchronizing signal (or video signal) stops in the MULTI PICTURE display, the mode will not change to power save mode.
- Please be careful since image retention will occur if display is left in a MULTI PICTURE display state for a long period of time.

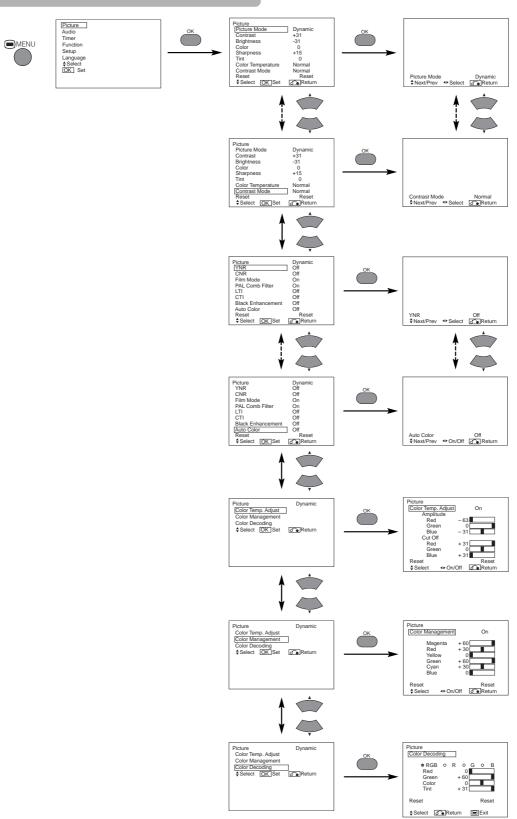
Input Signal Screen Display

The input signal status can be displayed on the screen by pressing the RECALL button of the remote control or the monitor.

· The display will go out in approximately 6 seconds.



PICTURE MENU



OPERATING INSTRUCTIONS (continued)

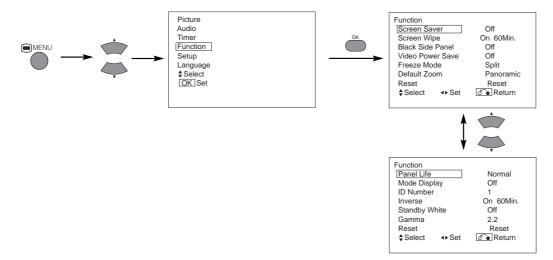
PICTURE MENU (continued)

Selected o	haracters	◀	>	Setup hint
Picture Mod	le	→Dynamic	→ Natural ←	Dynamic: This setting is best for very bright ambient lighting. Natural: This setting is for normal lighting conditions.
Contrast		Narrows the gap between brightness and darkness.	Broadens the gap between brightness and darkness.	Adjust for maximum visibility to suit the ambient brightness. This can adjust further till [+40] by pressing and holding ▶ cursor button at [+31]. The color for [+32] to [+40] numbers will change from white to magenta. This special mode is better for dark scenes. For normal viewing we recommend that the Contrast is set to [+31]. "Panel Life" in the Function Menu should be set to Normal when this Contrast setting is adjusted.
Brightness		Black is subdued for increased overall darkness.	Black is set off for increased overall brightness.	Adjust to taste.
Color		Darkens colors.	Lightens colors.	Adjust to taste.
Sharpness		Soft	Sharp	Normally set to Centre position Shift to the minus (-) side for a softer effect and plus (+) for sharper picture.
Tint		Enhances red and weakens green.	Enhances green and weakens red.	This is not available to adjust when receiving PAL/SECAM signal. Then the character will be grayed out. Adjust for most realistic skin color.
Color Temp	erature	Cool → Normal →	Warm ←→ Black / White	Normally set to Cool.
Contrast Mo	ode	Normal ← → Au	to ←→ Dynamic	Dynamic:Emphasizes the differences between video shadings to improve the feeling of contrast. Normal : The gradation of an image is reproduced as faithfully as possible. Auto:Detects image brightness and automatically adjusts for natural brightness.
Reset		(off the function)	(waiting to reset)	The original factory settings for the items of this Menu page can be restored by pressing the OK button.
YNR CNR		Off ←→ Low ←→ High		Performs picture signal noise reduction. Turn up to reduce noise.
				Performs color signal noise reduction. Turn up to reduce noise. And it will be fixed as Off only when selecting DVI-STB mode.
Film Mode		Off ←→ On ←		On:Automatically detects the movie film material and faithfully reproduces the original film image. Off:Set to OFF when switching between images does not appear natural.
PAL Comb	Filter	_→ Off →	→ On ←	This is available only when receiving a PAL composite signal. Turn On to reduce the discolorations in fine picture detail and provides purer color.
LTI				Adjusts the sharpness of the picture signal.
СТІ		Off ← Low ← →	Middle ← High	Adjusts the sharpness of the color signal.
Black Enha	ncement			Adjusts the black level compensation.
Auto Color		_→ Off ←	→ On ←	This is available only when receiving an NTSC composite/S.Video signal. This monitors and adjusts the color to maintain constant color levels. It also maintains natural flesh tones while preserving fidelity of background colors.
Color Temp.	Adjustment	→ Off ◆	→ On ←	Turn On when you wish to change color temperature depending on the user's preference.
	Red	Brighter scene is decreased in reddish color.	reddish color.	
Amplitude	Green	greenish color.	greenish color.	
	Blue	Brighter scene is decreased in bluish color.	Brighter scene is increased in bluish color.	Adjust color temperature depending on the user's preference. These settings are independently stored in each of the 4 Color Temperature
	Red	Dark scene is decreased in reddish color.	Dark scene is increased in reddish color.	settings are independently stored in each of the 4 Color Temperature modes.
Cut Off	Green	Dark scene is decreased in greenish color.	Dark scene is increased in greenish color.	
	Blue	Dark scene is decreased in bluish color.	Dark scene is increased in bluish color.	

Selected (characters	◀	>	Setup hint
Color Mana	gement	Off ◀	→ On ←	Turn On when the original balance of each color is required to adjust depending on the user's preference.
	Magenta	Magenta is weakened.	Magenta is strengthened.	
	Red	Red is weakened.	Red is strengthened.	
	Yellow	Yellow is weakened.	Yellow is strengthened.	This adjusts listed colors individually to make them either deeper or
	Green	Green is weakened.	Green is strengthened.	more pure. These settings are independently stored in each of the 4 Color Temperature modes.
	Cyan	Cyan is weakened.	Cyan is strengthened.	
	Blue	Blue is weakened.	Blue is strengthened.	
Color Deco	ding	→ RGB → R	→ G → B ←	Select the single color screen when that is required to adjust R/G/B level individually depending on the user's preference. And set it back to RGB mode that indicates all color after adjusting. Press the OK button every time the setting is changed.
	Red	Darkens red only.	Lightens red only.	
	Green	Darkens green only.	Lightens green only.	This adjusts R/G/B level or tint to make the color appear natural for
	Color	Darkens colors.	Lightens colors.	the user's preference. These settings are independently stored in each of the 4 Color Temperature modes.
	Tint	Enhances red and weakens green.	Enhances green and weakens red.	

FUNCTION MENU

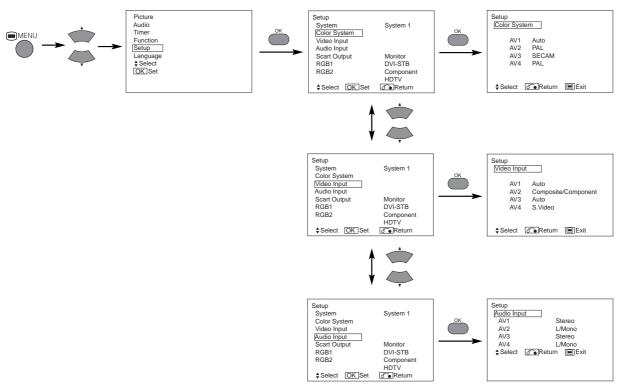
1 item is added to the Menu shown in the page $\fbox{19}$.



Selected characters	◀	>	Setup hint
Video Power Save	→ Off ◆	→ On ←	This is used to reduce power consumption for video input when there is no video signal. Setting it On will leads the monitor to the standby mode when the AV input with no signal is selected.

OPERATING INSTRUCTIONS (continued)

SETUP MENU



Selected characters	→	Setup hint
System	→ System1 ←→ System2 ←	Do not change the original setting. (System1 : Europe/Asia, System2 : North America)
Color System		
AV1	Auto ←→ PAL ←→ SECAM ← NTSC3.58 ←→ NTSC4.43 ←	This should correspond to the color system of the signal from the equipment that is connected to AV1 video input terminal. Normally, set this to Auto. The system of the input signal will be automatically recognized. If the input signal contains much noise or has a low level at Auto and the operation is found erratic, set this to match the input signal. When the component signal is received, this would be not available (grayed out).
AV2		,
AV3		(Same to AV1)
AV4		
Video Input		
AV1	Auto ←→HDTV ←→SDTV/DVD ←	This should correspond to the signal mode of the signal from the equipment that is connected to AV1 video input terminal. Normally, set this to Auto. The signal mode of the input signal will be automatically recognized. If the input signal contains much noise or has a low level at Auto and the operation is found erratic, set this to match the input signal.
AV2 (1st step)	→ RGB ←→ Composite/Component ←	This should correspond to the signal mode of the signal from the equipment that is connected to AV2 video input terminal.
AV2 (2nd step)	Auto ←→HDTV ←→SDTV/DVD ←	This step should be set only when [Composite/Component] is selected on the 1st step. And the procedure is same to AV1.
AV4	S.Video ← Composite ←	If the signal from the equipment that is connected to AV4 Scart input terminal is S.Video or Composite, set this to correspond to that signal. If the signal is RGB, it will be automatically recognized and this setting will have no effect.

Selected characters	◀	•	Setup hint	
Audio Input				
AV1	→ Stereo ←	→ L/Mono <	This should correspond to the audio signal from the equipment that is connected to AV1 audio input terminal. If it is monaural audio, set this to L/Mono.	
AV2				
AV3			(Same to AV1)	
AV4				
Scart Output	Not Available (grayed out)			
RGB1	DVI-PC ←	→DVI-STB ←	This should correspond to the signal mode of the signal from the equipment that is connected to RGB1 DVI terminal.	
RGB2 (1st step)	→RGB	Component -	This should correspond to the signal mode of the signal from the equipment that is connected to RGB2 D-sub terminal.	
RGB2 (2nd step)	→ Auto → HDTV	' ←→ SDTV/DVD ←	This step should be set only when [Component] is selected on the 1st step. This should correspond to the signal mode of the signal from the equipment that is connected to RGB2 D-sub terminal. Normally, set this to Auto. The signal mode of the input signal will be automatically recognized. If the input signal contains much noise or has a low level at Auto and the operation is found erratic, set this to match the input signal.	

OTHER FEATURES

Automatic Store

Approximately 1 sec. after adjustment is completed, the adjustments will be recorded as shown in the table below.

Menu	Display	Registration condition
Picture	Picture Mode	1 setting is registered.
	Contrast	For every input function and every
	Brightness	Picture Mode, 1 setting is
	Color	registered.
	Sharpness	
	Tint	
	Color Temperature	
	Contrast Mode	
	YNR	
	CNR	
	Film Mode	
	PAL Comb Filter	
	LTI	
	CTI	
	Black Enhancement	
	Auto Color	
	Color Temp. Adjust	
	R Amplitude	
	G Amplitude	setting is registered.
	B Amplitude	
	R Cut Off	
	G Cut Off	
	B Cut Off	
	D Cut Oil	For every input function and every
	Color Management	Picture Mode, 1 setting is registered.
	Magenta	1 setting is registered.
	Red	

Menu	Display	Registration condition
Picture	Yellow	1 setting is registered.
	Green	
	Cyan	
	Blue	
	Color Decoding	-
	Red	For every Color Temperature, 1
	Green	setting is registered.
	Color	For every input function and every
	Tint	Picture Mode, 1 setting is
Function	Video Power Save	registered. 1 setting is registered.
Setup		<u> </u>
Setup	System	1 setting is registered.
	Color System	1 setting is registered.
	AV1	
	AV2	
	AV3	
	AV4	
	Video Input	-
		1 setting is registered.
	AV2	
	AV4	
	Audio Input	-
		1 setting is registered.
	AV2	
	AV3	
	AV4	
	RGB1	
	RGB2	

[•] The previously recorded items will be lost.

TROUBLESHOOTING

Symptoms That Seemingly Appear to be Failures

Make the checks suggested below depending on the symptoms observed. If the symptoms remain uncorrected, contact your dealer.



Customer servicing can be hazardous.

Symptom	Point to check	See page
The screen becomes dark and the images cannot be seen during VTR special playback (fast forward, rewind).	This sometimes occurs when a component output VTR such as the 480i is connected. This is not a malfunction; therefore, please take note that this may occur. When it does occur, change to composite output, or S.video output.	_

PRODUCT SPECIFICATIONS

This table shows the specifications when the optional video unit has been inserted.

	Discussion	
Panel	Display dimensions	Approx. 42 inches (920 (H) x 518 (V) mm, diagonal 1059mm)
	Resolution	852 (H) x 480 (V) pixels
	ns eakers/Stand)	1030 (W) x 636 (H) x 91 (D) mm
Net weight (excluding Sp	eakers/Stand)	34.2 kg
Ambient	Temperature	Operating: 5°C to 35°C, Storage: -15°C to 60°C
conditions	Relative humidity	Operating: 20% to 80%, Storage: 20% to 90% (non-condensing)
Power supply		AC100 - 240V, 50/60Hz
Power consur	nption/at standby	310W / <3W
Audio output		$12W + 12W (6\Omega)$
(RGB input)		
	Input terminals	RGB1 DVI input terminal (DVI-D) RGB1 audio input terminal (3.5mm Stereo Mini Jack) RGB2 analog RGB input terminal (D-sub 15-pin) RGB2 audio input terminal (3.5mm Stereo Mini Jack)
Input signals	Video signals	0.7 V/1.0 Vp-p, analog RGB (Recommended Signal) 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60
	Sync signals	H/V separate, TTL level [$2K\Omega$] H/V composite, TTL level [$2K\Omega$] Sync on green, 0.3 Vp-p [75Ω]
Recommende	d signal	47 modes 29 42
(Video input)		
Input signals	Input terminals	AV1: composite video input terminal (RCA) AV1: Y PB PR video input terminal (RCA) AV1: L/R audio input terminal (RCA) AV2: composite video input terminal (RCA) AV2: Y/G PB/B PR/R video input terminal (RCA) AV2: L/R audio input terminal (RCA) AV3: composite video input terminal (RCA) AV3: S video input terminal (RCA) AV3: S video input terminal (RCA) AV3: L/R audio input terminal (RCA) AV4: composite video / S video / RGB / L/R audio input terminal (Scart)
	Video signals	AV1: PAL, SECAM, NTSC4.43, NTSC3.58 AV1: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60 AV2: PAL, SECAM, NTSC4.43, NTSC3.58 AV2: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60, RGB AV3: PAL, SECAM, NTSC4.43, NTSC3.58 AV4: PAL, SECAM, NTSC4.43, NTSC3.58 AV4: RGB
Video output	Signal	OUTPUT (MONITOR): composite video monitor-output terminal (RCA) OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA) AV4: composite video / L/R audio monitor-output terminal (SCART)
Recommende	d signal	15 modes 42

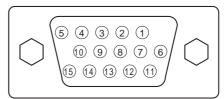
[•] The monitor takes at least 30 minutes to attain the status of optimal picture quality.

Signal Input

RGB terminal (D-sub 15-pin connector)

Pin	Input signal
1	R (Pa/Ca)
2	G or sync on green (Y)
3	B (Ps/Cs)
4	No connection
5	No connection
6	R.GND (Pr/Cr, GND)
7	G.GND (Y, GND)
8	B.GND (P _B /C _B , GND)
9	No connection
10	GND
11	No connection
12	[SDA]
13	H. sync or H/V composite sync
14	V.sync. [V.CLK]
15	[SCL]

(): With component input



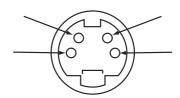
• When different kinds of input signals are simultaneously input to the monitor via a graphics board or the like, the monitor will automatically select the signals in the following priority order:

Sync signal type	Priority
H/V separate sync.	1
H/V composite sync.	2
sync.on Green *	3

*Even in the case of the recommended signals shown on the following page, there may be instances when correct display is not possible. In this case, use H/V separate sync, H/V composite

S-input connector pin specifications

Pin	Input signal			
1	Y			
2	Y-GND			
3	С			
4	C-GND			
Frame	GND			



Scart connector pin specifications

Pin	Signal	Pin	Signal
1	AUDIO OUT (RIGHT)	12	Not Used
2	AUDIO IN (RIGHT)	13	RGB-R GND
3	AUDIO OUT (LEFT/MONO)	14	GND
4	AUDIO GND	15	RGB-R / S.VHS CHROMINANCE IN
5	RGB-B GND	16	BLANKING SIGNAL
6	AUDIO IN (LEFT/MONO)	17	COMPOSITE VIDEO GND
7	RGB-B IN	18	BLANKING SIGNAL GND
8	AUDIO/RGB SWITCH / 16:9	19	COMPOSITE VIDEO OUT
9	RGB-G GND	20	COMPOSITE VIDEO / S.VHS LUMINANCE IN
10	Not Used	21	GND / SHIELD (CHASSIS)
11	RGB-G IN		



PRODUCT SPECIFICATIONS (continued)

Recommended Signal List

With Digital RGB signal input (RGB1 input)

	Signal mode			Horizontal Dot clock		Setup Menu Condition		
No.	Signal Name	Resolution	Vertical frequency (Hz)	frequency (kHz)	frequency (MHz)	DVI-PC	DVI-STB	Remarks
1	VGA	640 X 400	70.08	31.47	25.18	0		
2	VGA	640 X 480	59.94	31.47	25.18	0	0	
3	W-VGA	864 X 480	59.94	31.47	34.24	0		
4		640 X 480	72.81	37.86	31.50	0		
5		640 X 480	75.00	37.50	31.50	0		
6		640 X 480	85.01	43.27	36.00	0		
7		800 X 600	56.25	35.16	36.00	0		
8		800 X 600	60.32	37.88	40.00	0		
9	VESA	800 X 600	72.19	48.08	50.00	0		
10		800 X 600	75.00	46.88	49.50	0		
11		800 X 600	85.06	53.67	56.25	0		
12		1024 X 768	60.00	48.36	65.00	0		
13		1024 X 768	70.07	56.48	75.00	0		
14	1	1024 X 768	75.03	60.02	78.75	0		
15	480p	720 X 480	59.94	31.47	27.00		0	EIA-861
16	720p/60	1280 X 720	60.00	45.00	74.25		0	EIA-861
17	1080i/60	1920 X 1080	60.00	33.75	74.25		0	EIA-861

(○: acceptable)

With Composite Input(AV1~AV4 input) and S-video Input (AV3 input).

	Signal mode			Horizontal	Dot clock	
No	Signal Name	Resolution	Vertical frequency (Hz)	frequency (kHz)	frequency (MHz)	Remarks
1	NTSC4.43 NTSC3.58	525	59.94	15.73	_	
2	PAL SECAM	625	50.00	15.63	_	

With R, G, B Video input (AV2 and AV4 input).

No.		Signal mode		Horizontal frequency (kHz)		
	Signal Name	Resolution	Vertical frequency (Hz)			Remarks
1	NTSC4.43/3.58 PAL, SECAM	525 625	59.94 50.00	15.73 15.63	_	

With component input (AV1, AV2 and RGB2-component input).

No.		Signal mode		Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	576i	576	50.00	15.63	-	
2	480i	480	59.94	15.73	-	
3	576p	576	50.00	31.26	_	
4	480p	480	59.94	31.47	-	
5	1080i/50	1080	50.00	28.13	-	
6	1080i/60	1080	60.00	33.75	-	
7	720p/60	720	59.94	44.96	_	

[•] The monitor differentiates the signal modes according to the horizontal and vertical frequencies and the horizontal and vertical sync signal polarities. Note that different signals having all these elements alike may be handled as the same signal.

[•] Displaying images with more than 480 lines of vertical resolution at Full diplay (compressed display) can result in the interpolation of stripes.

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