

Color Plasma Display Model P42

USER'S MANUAL



P42 with optional stand.

Read the instructions inside carefully. Keep this user manual for future reference.

Serial No. _____

The serial number is located on the rear of the monitor.



SAFETY GUIDELINES

This monitor is designed to be safe to use. However, due to high voltage of about $400~\rm{V}$, fire or serious injury may occur unless you use this monitor in the proper way. Please follow the instructions shown below in order to avoid injury.



Keep the safety guideline

Do not use the monitor if it fails

If you find something unusual,

- * If smoke comes out.
- * If there is a strange smell,
- * If water enters the case.
- * If you drop the monitor or damage the cabinet,



- (1) Turn off the monitor
- (2) Disconnect the power plug from the mains
- (3) Request repair

Warning and Caution are indicated in this guide and monitor itself.



Fire or electric shock may cause death or serious injury unless you follow the instruction.



Electric shock or other accidents may cause serious injury or damage of your properties.



Fire or electric shock may cause death or serious injury unless you follow the instruction below.

• If something smells strange or smoke comes from the monitor:

Turn off the monitor and disconnect the power plug from the mains immediately. Contact service center after confirming that the smoking has stopped.

If you continue to operate the monitor with such abnormal condition, it may cause fire or you may receive an electric shock.

• Do not drop water or a foreign substance on to the monitor.

If you drop water or a foreign substance on to the monitor, it may cause fire or an electric shock.

If it happens turn off the monitor and disconnect the power plug from the mains and ask service center for instruction.

Do not put the monitor on an unstable place.

If you put the monitor on an uneven or unstable place, it may fall down and you may be injured.

Put the monitor on a flat surface strong enough to take the weight.

SAFETY GUIDELINES (continued)

- Do not apply shock to the monitor.
- Do not use monitor if glass is broken or damaged.

If there is no picture appearance, broken glass, smoking or something smells after applying shock to the monitor, turn off the monitor and disconnect the power plug from the mains immediately. Then, call the service center.

If you continue to operate the monitor with such abnormal conditions, it may cause fire or you may receive an electric shock.

Do not disassemble or modify the monitor.

There is high voltage portion inside of the monitor. Disassembling or modification of the monitor may cause fire or electric shock.

Do not use the monitor in wet environment.

If you use the monitor in a wet place such as bath or shower room, it may cause fire or electric shock. Using the monitor beside a window when snowing or raining or by a seaside are not recommended.

• Do not damage or modify the power cord.

If you put something heavy on the power cord or pull, squeeze, heat the cord, it may be damaged and it may cause fire or electric shock.

If the power cord is damaged, call service center.



Fire or electric shock may cause death or serious injury unless you follow the instruction.

• The enclosed power cord must be used!

Failure to do so may cause electric shock hazard or fire hazard.

In USA/Canada, use a UL LISTED/CSA LABELLED or CERTIFIED power cord set meeting the following specifications:

Rating: min. 125V, 10A, Length: max. 3.0m, Type: SVT or SJT

Plug type: NEMA 5-15P figure, Parallel blade, Grounding type

In Europe or 200V area, a proper European standard approved power cord is to be used with this monitor.

For a rated current up to 6 A, a type not lighter than H05VV-F $3G~0.75~mm^2$ or H05VVH2-F $3G~0.75~mm^2$ must be used.

Use only the correct voltage power outlet with safety ground connection!

100 - 120 V for USA, Canada, etc.

200 - 240 V for Europe, etc.

(This monitor will automatically adjust to the input voltage 100 - 120 / 200 - 240V.)

• Be careful of power cord connection!

Before inserting the plug of the power cord into a socket of the correct voltage, check that the connection portion of the power cord is clean (with no dust). Then, insert the plug of power cord into the socket firmly, otherwise it may cause electric shock or fire hazard.

• Do not touch the power plug when lightning is close to you.

You may receive an electric shock.

Do not touch the power plug with wet hands.

You may receive an electric shock.

Do not obstruct a ventilation hole.

If you obstruct a ventilation hole during the operation of the monitor or just after switching off the power, it may cause a fire or electric shock due to heating up the monitor.

- Do not put the monitor screen side up.
- Do not put the monitor on a shelf or in a cabinet without adequate ventilation of 4 inches top, sides, bottom and rear.
- Do not put the monitor on a carpet or mattress.
- Do not cover the monitor with a cloth.



Electric shock or other accidents may cause serious injury or damage to your property.

Disconnect the power plug from the mains when you move the monitor.

Moveing the monitor without disconnecting the power plug from the mains may damage the cord and cause a fire or electric shock. You are advised to move the monitor with two persons.

Handle with care when you move the monitor, particularly take care of glass screen.

When you disconnect the power plug.

You have to grasp the power plug itself, do not pull the power cord.

If you pull the power cord, you may damage it and it may cause a fire or an electric shock. Do not touch the power plug just after disconnecting it from the mains or you may receive electric shock.

• Disconnect the power plug from the mains when you don't use the monitor for a long time.

This is for your safety.

Do not put the monitor in atmosphere with soot, steam, high humidity, and dust.

It may cause a fire or electric shock.

Do not put the monitor in high temperature atmosphere.

Do not put the monitor in the place exposed to the direct rays of the sun for a long period of time. Heat may cause a fire, transformation, or melting of the monitor.

• Do not put things on the monitor.

Do not put things on the monitor or give some shock to the monitor.

The monitor may fall down or drop from a desk. And it may cause injury.

SAFETY GUIDELINES(continued)



You may have serious injury or your property may be damaged unless you follow the instruction below.

Do not coil or wind the power cord.

This may cause excessive heat resulting in a fire.

Caution for 200 - 240V operation only

This equipment relies on the protective devices in the building installation for short - circuit and over - current protection. Refer to the following table for the suitable number and location of the protective devices which should be provided in the building installation.

INFORMATIVE EXAMPLES OF PROTECTIVE DEVICES IN SINGLE - PHASE EQUIPMENT OR SUB - ASSEMBLIES

	Protection against	Minimum number of fuses or circuit - breaker poles	Location
Case A: Equipment to be connected to POWER SYSTEMS with earthed neutral	Earth faults	1	Phase conductor
reliably identified, except for Case C below.	Overcurrent	1	Either of the two conductors
Case B: Equipment to be connected to any supply, including IT POWER	Earth faults	2	Both conductors
SYSTEMS and supplies with reversible plugs, except for Case C below.	Overcurrent	1	Either of the two conductors
Case C: Equipment to be connected to 3 - wire power systems with earthed	Earth faults	2	Each phase conductor
neutral reliably identified.	Overcurrent	2	Each phase conductor

Verify that the protective devices in the building installation meets the conditions in the table prior to installing the equipment.

• Remove the power cord for complete isolation!

For complete isolation from the mains, remove the power cord from the monitor or from the wall socket.

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 eye 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 would be degraded to such extent that still images would image retention 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, for long.
- 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 monitor.

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

When cleaning the monitor, do not spray directly the screen or cabinet with cleaner. Use a clean, dust free, dry and soft cloth. If it is not enough, then use a cloth with non-alcoholic or non-ammonia detergent.

Do not rub the surface of the screen with ball-point-pen or screw-driver etc.

SAFETY GUIDELINES (continued)

Prevention of an obstacle to Radio receivers

This monitor has been designed pursuant to the FCC class B Rules (see page VII). 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 monitor

- Use the attached signal-cable when you connect the monitor with PC equipment. Do not use other signal-cables.
- 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.

FCC (Federal Communications Commission) STATEMENT WARNING

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

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

Instructions to Users: This equipment complies with the requirements of FCC (Federal Communication Commission) regulations, provided that following conditions are met. Video inputs: The input signal amplitude must not exceed the specified level.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Declaration of Conformity

According to 47CFR, Part 2 and 15 for Class B Personal Computers and

Peripherals: and / or

CPU Boards and Power Supplies used with Class B Personal Computers:

We: <u>Hitachi America, Ltd. Computer Division</u>

Located at: 2000 Sierra Point Parkway, Brisbane, CA 94005-1835, U.S.A.

Telephone: 1-800-HITACHI

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR § 2.909. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. The above named party is responsible for ensuring that the equipment complies with the standards of 47CFR § §1 5.101 to 15.109.

Trade name: Plasma Display Monitor

Model Number: CMP4121HDU



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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.

FEATURES

The following features are provided by the color Plasma Display Monitor.

Large-screen, high-definition plasma display panel

The 42-inch color plasma display panel, with a resolution of 1024 (H) x 1024(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.

Multimedia input support

The monitor is provided with a mini-D-Sub connector and a BNC connector for RGB input, and a Composite/S-video-connector and a COMPONENT connector for video input. A composite video output connector is also available for loop-through. Speaker output terminal is also provided. Simultaneous connection to multiple devices, ranging from computers to video equipment, is possible.

Multiscan converter and Flexible Control LSI

The multiscan converter provides a broad multiscan range of signals, from video signals (15 kHz) to PC analog video signals. Video input is subjected to signal processing by a dedicated LSI to offer better video quality.

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

The remote controller included eases the work of setting display controls. Further, the onscreen 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.

STANDARD ACCESSORIES

- This product is complete with the display monitor, plus the accessories shown below.
 - If any of these accessories is missing, please contact your dealer.



User manual (this book)



Remote-control transmitter



Size AA batteries x 2



Power cable



Signal cable, mini-Dsub 15-pin

- Read the user manual (this book) and keep them in a safe place for handy reference.
- Retain the packing materials for use in future shipping or relocation.

INSTALLATION INSTRUCTIONS

Installation

■ No stand is provided with this product. When installing the monitor, use the optional Desk-top Stand (651-61 or 651-62), Wall Mount Unit (horizontal-mount) 495-38.

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 CAUTIONS	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 set-up) or more between the sides and other objects such as walls, etc., so that the ventilation holes are not blocked.*

Anti-tumble measures



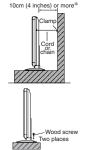
• Have this unit mounted in a stable place. Take measures to prevent it from tumbling down to avoid possible physical injury.

Securing to a wall or pillar

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

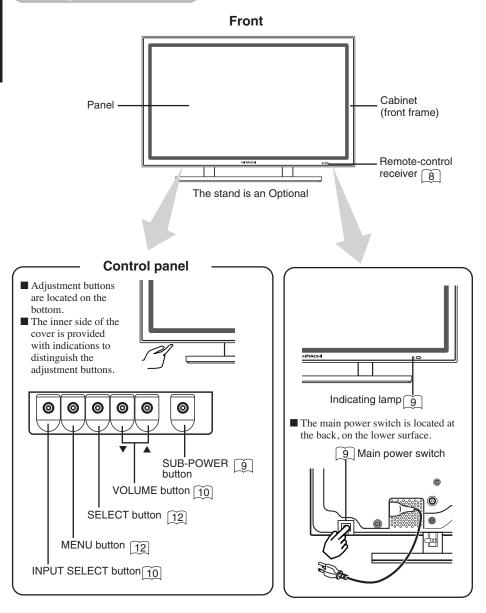
Securing desktop

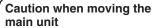
- 1)Using wood screws (two), fasten the set to the clamping screw holes on the rear of the stand as shown.
- 2)Using commercially available wood screws, secure the set firmly in position.



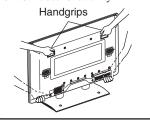
INSTALLATION INSTRUCTIONS (continued)

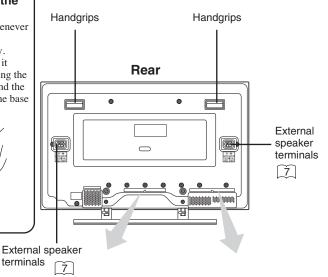
Component Names



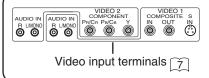


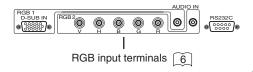
- As this product is heavy, whenever it is moved, two people are required to transport it safely.
- Whenever the unit is moved it should be lifted forwards using the two handgrips at the back, and the unit should then be held at the base on both sides for stability.



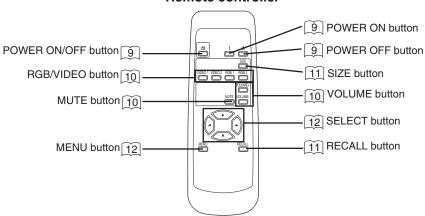


-External device connection terminals





Remote controller

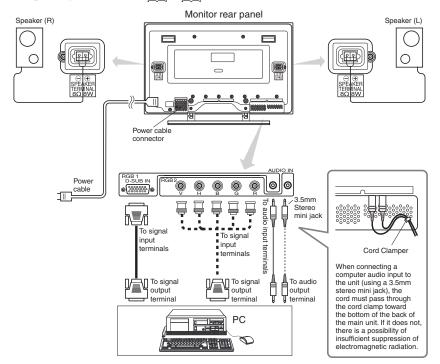


INSTALLATION INSTRUCTIONS (continued)

Installation and Cabling

Connecting to a PC

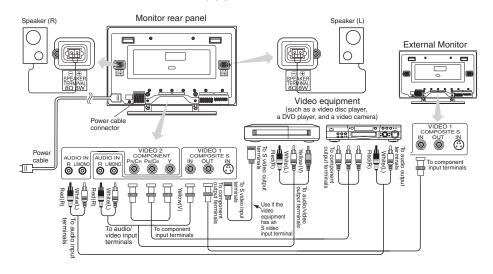
- Read SAFETY GUIDELINES (to vii) carefully to ensure maximum safety before proceeding to these steps:
 - 1) Make sure that the display signals produced by your PC meet the specifications of this product.
 - For the specifications of this product, see Product Specifications (27 to 29).
 - Choose an appropriate 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.
 - 3) Make sure that your PC's power switch is off.
 - 4) Interconnect the signal input terminal (RGB1) on the monitor rear panel and the display signal output terminal of the PC to each other using the signal cable included.
 - Optional cables are needed to connect to the RGB2 input and audio input terminals.
 - If the signal cable included does not match your PC, consult your dealer after reading the section "Signal Input". 28
 - 5) Insert one end of the power cable included into the rear-panel power cable connector and the other end into a power socket.
 - 6) Turn on the monitor, then the PC to make sure that a display image appears on the monitor screen.
 - For instructions on turning on the monitor and adjusting its display images, see "Operating Instructions" (9 to 19).



Connecting to Video Equipment

(such as a Laser Disc player, a DVD player, a DSS, or a Video Camera)

- - 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.
 - 2) Make sure that the video equipment's power switch is off.
 - 3) Interconnect the signal input terminal on the monitor rear panel and the video equipment's signal output terminal to each other using an commercially available video cable.
 - 4) Insert one end of the power cable included into the rear-panel power cable connector and the other end into a power socket.
 - 5) Turn on the monitor, then the video equipment's to make sure that a display image appears on the monitor screen.
 - For instructions on turning on the monitor and adjusting its display images, see "Operating Instructions" (9 to 19).



- 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 connect to the monitor at the same time, S video input would govern.)
- If video equipment is equipped with component video output (Y, PB, PR or Y, CB, CR), please
 connect to the corresponding color (Y, PB, PR) input jack on the component input of the
 monitor.
- If the VIDEO1 OUT 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. If an external monitor is not being
 used, the cable must be removed from the VIDEO OUT terminal. The image will appear
 white as saturation level is reached.

NOTE: Y to Y, PB-CB to PB, PR-CR to PR.

INSTALLATION INSTRUCTIONS (continued)

Handling the Remote Controller

Loading Batteries

- 1) Open the battery cover.
 - Slide the battery cover towards the arrow mark while pressing it.



- 2) Load batteries.
 - Load two Size AA batteries included observing the correct polarities.

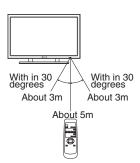


- 3) Close the battery cover.
 - Slide back the battery cover towards the arrow mark.



Handling the Remote Controller

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



⚠ CAUTIONS	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.
TIPS	 Do not drop or impact the remote controller. Do not splash the remote controller with water or put it on a wet object to avoid possible failures. Before leaving the remote controller out of use for an extended period of time, remove the batteries from it. If the remote controller 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.

• Do not use new and old batteries together. The batteries could

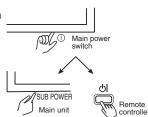
OPERATING INSTRUCTIONS

Turning Power On and Off

- To turn the monitor power ON, press the main power switch (①) on the monitor main unit to ON, and then press the SUB POWER button or the ۞ or | button on the remote control.
- To turn the monitor power OFF, press the SUB POWER button or the \bigcirc or \bigcirc button on the remote control, and then press the main power switch (\bigcirc) on the monitor main unit to OFF.
 - During normal use, the main power switch (①) is set in the ON position, and the monitor can then be turned ON/OFF using the SUB POWER button or the ⇔| button on the remote control.

Indicating lamp	Power status	Operating
Off	Off	When the main power switch ① is set to OFF.
Lights red	Off (standby)	When the main power switch (①) is ON, and the ① button on the remote control or the SUB POWER button on the underside of the front of the frame is OFF.
Lights or blinks green	On	When the main power switch (①) is ON, and the button on the remote control or the SUB POWER button on the underside of the front of the frame is ON.

 When the indicating lamp blinks in green or the message "POWER SAVE" or "OUT OF FREQUENCY" appears on the screen, there is something unusual about the status of reception. See "Symptoms That Seemingly Appear to be Failures." 23



TIPS

- Avoid repeatedly turning the monitor on and off at short time intervals. Failures might result from such operation.
- Turn off the main power switch (①) 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.

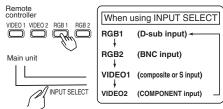
OPERATING INSTRUCTIONS (continued)

Input Selection

■ The input is switched by pressing the RGB1, RGB2, VIDEO1 or VIDEO2 button on the remote control. Pressing the INPUT SELECT button on the monitor main unit switches the input in the order of

 $RGB1 \rightarrow RGB2 \rightarrow VIDEO1 \rightarrow$ $VIDEO2 \rightarrow RGB1$.

• When the same signal is input to RGB1 and RGB2, the phase may in some cases shift slightly but this is not a malfunction. In such case, readjust the PHASE of the one being used.



Volume Adjustment

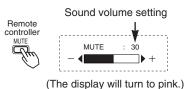
- While the on-screen display system, (12) is not on display, press the remote controller VOLUME button volume or volume (or the main unit VOLUME button ▲ or ▼ to adjust the sound volume.
 - The adjustment status will be displayed as guidance while you press these buttons.
 - While the guidance is on display, press VOLUME. or \(\blacktop \) to turn up the volume.
 - While the guidance is on display, press VOLUMEor ∇ to turn down the volume.
 - You can also adjust the sound volume setting via the on-screen display system 14.
- The sound volume adjustment mode will exit when no keys are entered for 5 seconds. (The adjustment status guidance will disappear automatically.)

Main unit

▼VOLUME▲

Sound Mute

- Press the remote controller MUTE button to mute the sound temporarily.
 - When you press the button, [MUTE] (pink) and the status of volume setting will be displayed in a guidance image.
 - While the sound is muted, press the button to turn down the volume.
 - While the sound is muted, press the button to cancel the mute.
 - You can also adjust the sound volume setting of the mute via the on-screen display system 14.



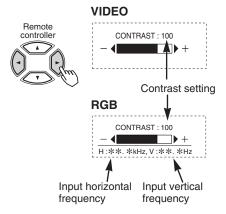
Sound volume setting

Adjustment status guidance

- Press the remote controller MUTE button once again and the mute will be canceled and the guidance will change to VOLUME (blue), enabling the volume to be heard.
 - When MUTE is used, the guide display will continue for 5 sec. and then turn off.

Contrast Adjustment

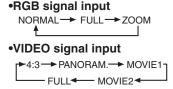
- While the on-screen display system [12], is not on display, press the remote controller SELECT button < or > to adjust the contrast.
 - When you press these buttons, the status of contrast adjustment and the input horizontal (H) and vertical (V) frequencies of the input signal will be displayed in a guidance image. (For RGB input only)
 - While the guidance is on display, press the key to narrow the difference between darkness and brightness.
 - While the guidance is on display, press the ⊳ key to widen the difference between darkness and brightness.
 - You can also adjust the contrast setting via the on-screen display system 13.
 - The contrast adjustment mode will exit when no keys are entered for 5 seconds. (The adjustment status guidance will disappear automatically.)



Adjustment status guidance

Size Selection

■ Each press on the SIZE button on the remote control switches the display size of the screen (or the display area) in the following order. The selected mode is displayed in the lower part of the screen.

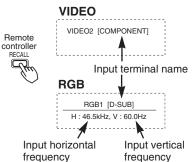




• Depending on the signal type, sometimes it may not be possible to change screen size. Sometimes certain sizes may be unavailable. 15 16

Input Signal Status Display

- Press the remote controller RECALL button to display the status of input signals on the screen.
- Press the remote controller RECALL button once again to exit the screen display.
 - The Menu will clear 5 seconds later.



OPERATING INSTRUCTIONS (continued)

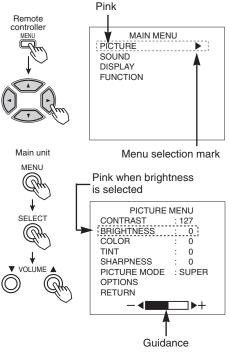
On-Screen Display System

- Press the MENU button to open an MAIN MENU allowing you to complete various adjustments and settings using the SELECT buttons (The \triangle , ∇ , \triangleleft , and \triangleright keys of the remote controller or the SELECT or VOLUME button of the main unit.).
 - Press the SELECT button of the main unit
 (△ or ▽ key of the remote controller) to
 select an item by moving the pink text.
 - Press the VOLUME button and the ▲ and
 ▼ keys of the main unit (< or > key of the remote control) to adjust or set the selected item, or to switch the menu.
 - When a choice is followed by ":", it indicates that the choice can be adjusted or changed.

 - When [RETURN] is selected, press the remote-controller button SELECT

 or the main unit SELECT button and VOLUME button

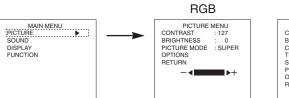
 to exit to the original menu
 - For information on adjusting and setting choices, see 13 to 19.
- Press the MENU button once again to exit the MAIN MENU.
 - The MAIN MENU will close automatically when no keys are entered for 10 seconds.



HINTS

- Image retention can occur if the same image is displayed for an extended time. To reduce this possibility, change the display contents at suitable intervals.
- You are recommended to use the built-in screen saver function.
- If special images created on a PC or any other equipment (such as those composed of a checker-flag pattern) are displayed across the screen, the hue may be varied depending on the contrast or brightness setting.

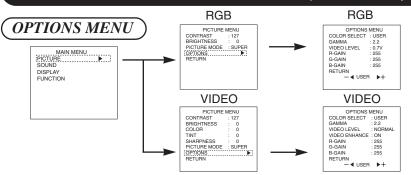
PICTURE MENU



VIDEO			
PICTURE CONTRAST BRIGHTINESS COLOR TINT SHARPNESS PICTURE MODE OPTIONS BETURN	: 127 : 0 : 0 : 0 : 0		
	▶ +		

Selected characters			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.
BRIGHTNESS	Black is subdued for increasedoverall darkness.	Black is set off for increased overall brightness.	Adjust to prevent black from spreading across the screen.
COLOR	Lightens colors.	Darkens colors.	Adjust for desired density, somewhat for lighter colors for a natural look.
TINT	Enhances red and weakens green.	Enhances green and weakens red.	Adjust for a nice looking skin color.
SHARPNESS	Softens display images.	Sharpens display images.	Normally set to middle, and towards - for increased softness.
PICTURE MODE	Set to NORMAL	Set to SUPER	Normally set to SUPER.

OPERATING INSTRUCTIONS (continued)

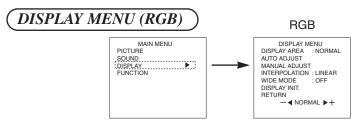


Selected characters			Setup hint	
COLOR SELECT	COOL → NORM → WARM → USER		Normally set to COOL.	
GAMMA	1.0 ← → 2.2 ← → 2.8		Normally set to 2.2.	
	VIDEO NORMAL → +10% → +20% EVEL		Normally set to NORMAL. If white is found to spread across	
VIDEO LEVEL			the screen, set to +10% or +20%.	
	RGB		Normally set to 0.7 V. If white is found to spread across the	
	Set to 0.7 V.	Set to 1.0 V.	screen, set to 1.0 V.	
VIDEO ENHANCE	Set to OFF	Set to ON	ON enhances vertical lines. Normally set to ON.	
R-GAIN *	Red is weakened.	Red is strengthened.	Sets the color adjustment selected by the user with COLOF	
G-GAIN *	Green is weakened.	Green is strengthened.	SELECT. USER mode takes effect	
B-GAIN *	Blue is weakened.	Blue is strengthened.	automatically when an attempt made to set a gain.	

^{*}The respective individual R.G.B. setting can not be under 255.



Selected characters			Setup hint
VOLUME	Turns down the volume.	Turns up the volume.	Adjust for the desired sound volume. 10
BALANCE	Suppresses right-side sound.	Suppresses left-side sound.	
TREBLE	Suppresses treble.	Enhances treble.	Adjust to taste.
BASS	Suppresses bass.	Enhances bass.	
MUTE VOLUME	Turns down the sound volume.Minimum 0.	Turns up the sound volume.Maximum premute sound volume.	Varies the sound volume when the MUTE button is pressed.



Selected characters			Setup hint
DISPLAY AREA	NORMAL → FULL → ZOOM		Set to FULL to display images across the screen for gaining an overview of the overall images.
AUTO ADJUST *	ADJUS	ST OK?	Adjusts the CLOCK,
AOTO ADJUST	Set to YES.	Set to NO.	PHASE, etc. automatically.
INTERPOLATION	Set to DOUBLE.	Set to LINEAR.	Set to DOUBLE to see characters or images crisp or to LINEAR to view them smooth.
WIDE MODE **	Set to OFF.	Set to ON.	Only displayed when VGA (60 Hz) or WIDE VGA signals are input. Natural images can be enjoyed when set to ON when WIDE VGA signals are input. Set to OFF when VGA (60 Hz) signals are input.
	INITIALIZE?		
DISPLAY INIT.	Set to YES. Clears all DISPLAY MENU adjustment values exept DISPLAY AREAand exits to the DISPLAY MENU.	Set to NO. Exits to the DISPLAY MENU, without clearing the menu adjustment values.	Clear the user signal preset data.

- * Depending on the type of signal displayed, displays may not be optimized through automatic adjustment. Apply MANUAL ADJUST to optimize them. 16
- * 1080/60i signal doesn't exit the display of AUTO ADJUST. Apply MANUAL ADJUST in this case.
- ** When WIDE MODE is set to ON, the display area mode becomes FULL and switching of the size is not possible.

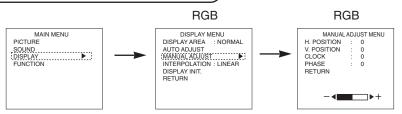
Displays According to Selected DISPLAY AREA (RGB input)

Resolution	Overall display	Parti	al display
Display	FULL	NORMAL	ZOOM
640 X 480 (VGA)		X	Data area
800 X 600 (SVGA)		<u> </u>	↑ The V.Posi
1024 X 768 (XGA)	<u> </u>	SXGA X : Y = 5 : 4	setting allows for upward and
1280 X 1024 (SXGA)		Others	downward scrolling.
1600 X 1200 (UXGA)		X : Y = 4 : 3	3

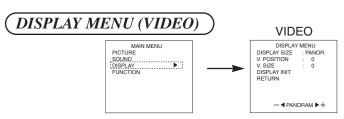
 Signal processing is carried out for compression (pixel thinning) or zoom, etc. for the above signal displays.

OPERATING INSTRUCTIONS (continued)

MANUAL ADJUST MENU (RGB)



Selected characters			Setup hint
H.POSITION	Moves the horizontal position to left.	Moves the horizontal position to right.	Adjust the left-side display position.
V.POSITION	Moves down the vertical position.	Moves up the vertical position.	Adjust the vertical display position.
CLOCK	Reduces the dot clock frequency (shrinks the right side).	Increases the dot clock frequency (expands the right side).	Adjust for maximum character clarity.
PHASE	Slows the dot clock phase (shifts slightly to left).	Advances the dot clock phase (shifts slightly to right).	Adjust for clear character visibility.



Selected characters			Setup hint
DISPLAY SIZE	4:3 ← PANOR. FULL ← ►	- 1	Select to suit the aspect ratio of the video software.
V.POSITION (PANORAM/MOVIE1/ MOVIE2)	—	↑	Adjust the vertical position when subtitles cannot be read.
V.SIZE (PANORAM/MOVIE1/ MOVIE2)		<u> </u>	Adjust until the black band (blanking) at the top and bottom is no longer visible.

- Composite / S signal (video1 input) and componet (SD1 480i) signal applicable for all size modes.
- For component (HD1: 480p) signals, the display mode is selectable among 4:3, MOVIE1, and FULL.
- For component (HD3: 1035i, 1080i, 720p) signals, the display mode is not selectable.
- If an S1 or S2 image is input from the S image of video1, the S1 image would be set to FULL, and the S2 image would be set to MOVIE1.

Displays by Selecting the DISPLAY SIZE (VIDEO input)

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		0 0	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.	PANOR. (Panoramic)	(4:3 signal)	000	
The 16:9 VISTA size image in the 4:3 image is faithfully reproduced on the 16:9 screen.	MOVIE1	(Vista)		The 4:3 image is called a letterbox image. In some cases, some slight blanking may remain at the top and bottom.
The 21:9 Cinema size image in the 4:3 image is expanded vertically on the 16:9 screen.	MOVIE2	(Cinema)	000	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	(Squeez)	000	* An image with an aspect ratio of 16:9 shrunk horizontally to 4:3 to display in a 4:3 screen

Using a wide-screen monitor

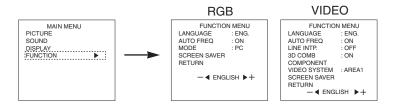
• This monitor has a screen mode selection feature. If an incompatible screen mode is selected to play certain software, such as a TV program, the image would appear different from the original. Take this into consideration when making screen mode choices.

TIPS

- 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 PANOR. mode, not the Wide 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)

FUNCTION MENU



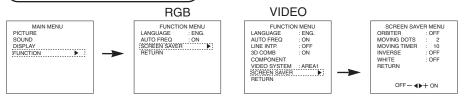
Selected characters			Setup hint
LANGUAGE	ENG.(ENGLISH) ← D.(DE ESP.(ESPAÑOL) ←	The default is ENG (English).	
AUTO FREQ. (RGB input only)	Set to OFF The frequency of a new signal is not displayed as it is received.	Set to ON. The frequency of a new signal is displayed as it is received.	Set to OFF if you find the frequency display appearing upon signal change annoying.
MODE (RGB input only)	PC ∢ ▶ MOVIE		The mode function added to the Function Menu allows for a smooth playback of movies from 60 Hz XGA input when it is set to MOVIE. Normally, keep the function menu set to PC (OFF mode). Set it to MOVIE (ON) when playing movies.
LINE INTP.	Set to OFF.	Set to ON.	Set to ON when playing a 3D-video disc. Set to OFF in most cases.
3D COMB	Set to OFF.	Set to ON.	Set to OFF if video images appear unnatural. Set to ON in most cases.
VIDEO SYSTEM	N-PAL M-PAL ↓ 4-NTSC ↓ SECAM	AREA2 NTSC	Switch the color system to suit the input system in video input mode VIDEO1. Normally, set to AREA1. The input signal system will be automatically recognized to display input images on the screen (Japan, Europe, and North America). (Choose AREA2 in South America.) If the input signal contains much noise or has a low level at AREA1, 2 and the operation is found erratic, set to match the input system.

COMPONENT MENU(VIDEO)



Selected characters		4	Setup hint
COMPONENT SD1 (480i)			
COMPONENT SD2 (European SDTV)			The default is Y/Cb/Cr.
COMPONENT HD1 (480p)	Set to Cb/Cr to suit the Y/Cb/Cr signals.	Set to Pb/Pr to suit the Y/Pb/Pr signals.	
COMPONENT HD2 (720p)			The default is Y/Pb/Pr.
COMPONENT HD3 (1080i)			The delault is T/FD/FT.

SCREEN SAVER MENU



Selected characters	haracters \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc		Setup hint
ORBITER	Set to OFF.	Set to ON.	Set to ON when high image retention potential exists such as static or still image displayed long period of time.
	1 → ▶	2 - 2 - 3	
MOVING DOTS	Reduces the amount of movement.	Increases the amount of movement.	Adjust as desired.
MOVING TIMER	Reduces the time interval.	Increases the time interval.	Shift time can be set from 1 min. to 60 min. (Use zero (0) to check the shift range. Shift time will be approx. 1 sec.)
INVERSE	60 ← → OFF ← → ON		Normally set to OFF. If 60 is selected, the set enters a power wait state 60 minutes later, with its settings canceled. When a still picture has been displayed for long before ON is selected to
WHITE			display the same still picture, INVERSE or WHITE helps prevent the still picture from baking into the panel. The set stops when input signal flow is interrupted.

OTHER FEATURES

Automatic Store

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

Item	Display Registration condition		Reproduction condition
Sound volume Sound balance Treble Bass Mute volume Input status automatic display Line correction Three-dimensional Y/C separation HD signal Language selection	VOLUME BALANCE TREBLE BASS MUTE LEVEL AUTO FREQ. LINE INTP. 3D COMB COMPONENT LANGUAGE	One set can be recorded.	During normal signal reception.
Contrast Brightness Color temperature Gamma correction Input signal level	CONTRAST BRIGHTNESS COLOR SELECT GAMMA VIDEO LEVEL	One set can be recorded during common RGB1, RGB2 input; one set of two can be recorded during normal signal reception with common VIDEO 1, VIDEO 2 input.	During normal signal reception.
Color Tint Sharpness Video enhance	COLOR TINT SHARPNESS VIDEO ENHANCE	One set can be recorded during common VIDEO 1, VIDEO 2 input.	During normal signal reception.
Display area Display size Horizonal position Vertical position Dot clock frequency Dot clock phase Verical size	DISPLAY AREA DISPLAY SIZE H.POSITION V.POSITION CLOCK PHASE V. SIZE	One group can be recorded for each signal mode.	During recording and when the same signal mode is detected.

- 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.
- RGB1 and RGB2 inputs have common elements that can be recorded for each signal mode. Because of this, when the contents are recorded with RGB1 (or RGB2), there may be loss of adjustment during RGB2 (or RGB1) reception in the same signal mode.

■ The on-screen display system shown to the right will be displayed when the SELECT button is used to select DISPLAY and moreover DISPLAY INIT is selected from the On-screen Display System 12. If the ⊲ key (select YES) of the SELECT button is pressed at this time, the user adjustment values in the table below for the signal currently being received will be deleted and the factory settings will be restored.

INITIALIZE? YES - **◆** + NO

• Pressing the > key (select NO) cancels deletion and returns the DISPLAY MENU.

DISPLAY menu item	Display	Application
Horizontal position	H.POSITION	RGB1, RGB2
Vertical position	V.POSITION	RGB1, RGB2, VIDEO1, VIDEO2
Dot clock frequency	CLOCK	RGB1, RGB2
Dot clock phase	PHASE	RGB1, RGB2
Vertical size	V. SIZE	VIDEO1, VIDEO2

Signal Check

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

Status	Display	Action
The input signal was switched or the RECALL button was pressed after AUTO FREQ was turned on.	The input terminal and the horizontal and vertical frequencies are displayed in a guidance image.	-
A sync signal could not be detected.	The guidance message "POWER SAVE" is displayed for about 5 seconds. In the event of continued absence of a sync signal, the power indicating lamp flickers and the monitor enters power save mode.	Check the power switch of the PC and its status of connection.
The input signal does not meet display specifications or erratic.	The guidance message "OUT OF FREQUENCY" is displayed.	• Check the input signal specifications once again.

OTHERFEATURES (continued)

Power Save Mode

- When the RGB 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 sync signal	Horizontal	Yes	No	Yes	No
HGD Syllc Signal	Vertical	Yes	Yes	No	No
Video signal		Active (normal display)	Blank (no video)		
Operation mode		On	Off		
Indicating lamp		Lights green	Blinks green		
Power consumption		360W (Sound off)	5W or less		

- When the Video Input is selected
 - When there is no video signal input, the power-saving system operates to reduce the power consumed by the sunit.

Video signal	Yes	No
Screen display	Active (normal display)	Blank (no video)
Operation mode	On	Off
Indicating lamp	Lights green	Blinks green
Power consumption	360W (Sound off)	5W or less

Sound Mode

- If you press the MENU button while the monitor has power save mode turned off, sound output is enabled by cancelling the off setting of power save mode.
 - When the monitor enters sound mode, it displays a mode indication on the screen.
 - In sound mode, sound volume can be adjusted.



- Press the MENU button to cancel sound mode.
 - Power save mode is enabled when sound mode is canceled.
 - If an input signal is available, the monitor displays the input signal by canceling sound mode automatically.

Remote	
controller MENU	POWER SAVE
\Box m	
6.)	4

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.

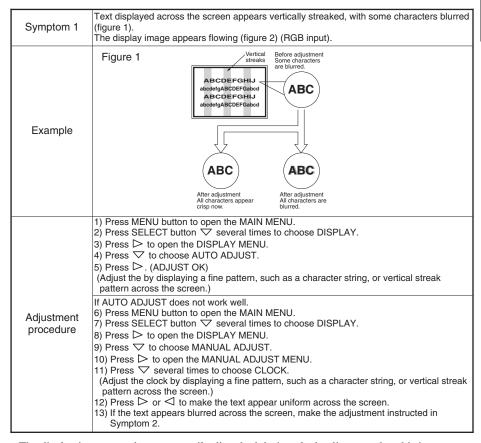
Symptom		Point to check	See
No picture with the power-indicating lamp off.		Check the way the power cable is connected. Press the power switch.	6 7 9
The message "POWER SAVE" is displayed. No picture with the power indicating lamp flickering in green.	POWER SAVE	No sync signal is detected. Check the 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.	6 7 9 0 2 2 8 6 7
The message "OUT OF FREQUENCY" is displayed.	DUT OF FRQUENCY	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.	6 7 21
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.	6 7 11 13
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)	15 16 25
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)	15 16 26
The remote controller does not we	ork.	Check to see if the batteries are loaded in the remote controller in opposite direction. Check to see if the batteries in the remote controller are OK.	8

TROUBLESHOOTING (continued)

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 manufactue 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 phase will reduce the horizontal stripes. (RGB input)	16
The display dims to make the picture invisible during special playback of a VCR (FF, REW).	This condition may occur when the unit is connected to a VCR with component output, such as 480i, but it is not a failure. But when it occurs, switch to composite output or S1 (S2) output).	-
Flickering in the form of horizontal lines oscillating up and down.	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.	-
The fan motor is noisy.	Use the fan that controls the temperature in the main body to lower the temperature of this unit. If the ambient temperature is high, the noise from the motor increases as the rotation speed increases. This is not a malfunction.	-
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.	-

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.



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

TROUBLESHOOTING (continued)

Symptom 2	Text displayed across the screen appears blurred in its entirety (figure 2). A fine pattern flickers when displayed on the screen (figure 3).				
Example	Figure 2 ABCDEFGHIJ abcderlgABCDEFGabcd ABCDEFGGHod ARCDEFGGHod A				
Adjustment procedure	1) Press MENU button to open the MAIN MENU. 2) Press SELECT button ▽ several times to choose DISPLAY. 3) Press ▷ to open the DISPLAY MENU. 4) Press ▽ to choose AUTO ADJUST. 5) Press ▷ . (ADJUST OK) (Adjust the by displaying a fine pattern, such as a character string, or vertical streak pattern across the screen.) If AUTO ADJUST does not work well. 6) Press MENU button to open the MAIN MENU. 7) Press SELECT button ▽ several times to choose DISPLAY. 8) Press ▷ to open the DISPLAY MENU. 9) Press ▽ to choose MANUAL ADJUST. 10) Press ▷ to open the MANUAL ADJUST MENU. 11) Press ▷ several times to choose PHASE. (Adjust the phase by displaying a fine pattern, such as a character string, or vertical streak pattern across the screen.)				

PRODUCT SPECIFICATIONS

■ Product specifications and designs are subject to change without notice.

Туре		P42				
Display dimensions		Approx. 42 inches (922 mm (H), vertical 522 mm (V), diagonal 1059 mm)				
	Resolution	1024 (H) x 1024 (V) pixels				
		RGB input	VIDEO input			
Input	Input terminals	RGB one-line two input terminals (D-sub 15-pin) (BNC) RGB audio two-line two input terminals (left, right) (3.5mm Stereo mini jack)	(RCA) Video 1 S video input terminal (S)			
signals	Video signals	0.7 V/1.0 Vp, analog RGB (horizontal: 24kHz to 107kHz, vertical: 50Hz to 85Hz) 1080/50i, 1080/60i	NTSC, NTSC-4.43, M-PAL, PAL, N-PAL, SECAM, 480/60i, 480/60p, 720/60p, 1080/60i, 1035/60i, 575/50i			
	Sync signals	H/V separate, TTL level [2KΩ]	-			
		H/V composite, TTL level [2KΩ]	-			
		Sync on green, 0.3 Vp-p [75Ω]	-			
Video outp	ut Signal	-	Through output (BNC) for VIDEO1 input signals.			
Recommen	ided Signal	27 modes 29	10 modes 30			
Audio outp	out terminal	8W + 8W (8Ω)				
Input powe	er	AC100 - 120 / 200 - 240V(automatically selected) 4A / 2.2A Power consumption 360W (Sound off)				
External dimensions		1030 (W) x 636 (H)x 89 (D) (mm) (excluding the stand)				
Mass		31kg (excluding the stand), 35kg (When mounted on optional stand.)				
Ambient	Temperature	Operating: 5°C to 35°C, Storage: 0°C to	9 40°C			
conditions	Relative humidity	Operating : 20% to 80%, Storage : 20%	to 90% (non-condensing)			

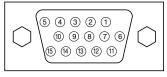
[•] The monitor takes at least 30 minutes to attain the status of optimal picture quality.

PRODUCT SPECIFICATIONS (continued)

Signal Input

■ RGB terminal (D-sub 15-pin connector)

Pin	Input signal
1	R. video
2	G. video or sync on green
3	B. video
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.

■ RGB terminal (BNC connector)



V.sync.



composite sync



B. video







R. video

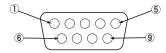
■ S-input connector pin specifications

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



■ Serial connector pin specifications

Pin	Input signal	Remarks
1	No connection	
2	RXD	Unit ← PC
3	TXD	Unit → PC
4	No connection	
5	GND	Unit GND ↔ PC GND
6	No connection	
7	No connection	
8	No connection	
9	No connection	



Recommended Signal List

■ The following are recommended for use with this moniter RGB signal input (RGB1 or RGB2 signal input)

	Signal mode			Horizontal	Dot clock	
No.	Signal Name	Resolution	Vertical frequency (Hz)		frequency (MHz)	Remarks
1	VGA	640 X 400	70.08	31.47	25.18	
2	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	60.32	37.88	40.00	
8		800 X 600	72.19	48.08	50.00	
9		800 X 600	75.00	46.88	49.50	
10		800 X 600	85.06	53.67	56.25	
11		1024 X 768	60.00	48.36	65.00	
12	VESA	1024 X 768	70.07	56.48	75.00	
13	VESA	1024 X 768	75.03	60.02	78.75	
14		1024 X 768	85.00	68.68	94.50	
15		1152 X 864	75.00	67.50	108.00	
16		1280 X 1024	60.02	63.98	108.00	
17		1280 X 1024	75.03	79.98	135.00	
18		1280 X 1024	85.02	91.15	157.50	
19		1600 X 1200	60.00	75.00	162.00	
20		1600 X 1200	75.00	93.75	202.50	
21		1600 X 1200	85.00	106.25	229.50	
22		640 X 480	66.67	35.00	30.24	
23	Magintoch	832 X 624	74.55	49.72	57.28	
24	Macintosh	1024 X 768	75.11	60.24	80.00	
25		1152 X 870	75.06	68.68	100.00	
26	1080 / 60i	1080i	59.94	33.72	74.25	Only in the
27	1080 / 50i	1080i	50.00	28.13	74.25	case of H/V separate sync

PRODUCT SPECIFICATIONS (continued)

Recommended Signal List (continued)

Composite / S input (VIDEO 1 input)

	Signal mode			Horizontal	Dot clock	Remarks
No.	Signal Name Resolution Vertical frequency (Hz)	frequency (kHz)	frequency (MHz)			
1	NTSC NTSC-4.43 M-PAL	525	59.94	15.73	-	
2	PAL N-PAL SECAM	625	50.00	15.63	-	

Component input (VIDEO 1 input)

No.	Signal mode			Horizontal	Dot clock	Damada
	Signal Name	Resolution	Vertical frequency (Hz)	frequency (kHz)	frequency (MHz)	Remarks
1	480/60i	480	59.94	15.73	-	
2	575/50i	575	50.00	15.63	-	
3	480/60p	480	59.94	31.47	-	
4	720/60p	720	59.94	44.96	-	
5	1080/60i	1080	59.94	33.72	-	
6	1035/60i	1035	60.00	33.75	-	

- The type of video board or connecting cable used may not allow for correct displays adjustment of H.POSITION, V.POSITION, CLOCK and 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 512 lines of vertical resolution at Full diplay (compressed display) can result in the interpolation of stripes.
- Use of this monitor with the input signal timings specified below is recommended. A predefined setting may not be reproduced correctly with an extremely long front porch or back porch or with an extremely short data display time.

		Front porch	Sync width	Back porch	Blanking width
Horizontal	Horizontal frequency 24 kHz to 52 kHz	0.2 µs or more	1.0-4.0 µs	1.2 µs or more	3.5 µs or more
timing	Horizontal frequency 52 kHz to 106 kHz	0.2 µs or more	0.8-3.0 µs	1.1 µs or more	2.3 µs or more
Vertical timing		9 µs or more	25 µs or more	400 µs or more	450 µs or more

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TWO-YEAR LIMITED WARRANTY

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When requesting warranty service, please have the sales receipt available along with the model name and serial number.

If it becomes necessary to return the projector, use the original packing material and box (if retained) or pack securely. Dukane Corporation will not be liable for any pick-up or delivery charges or any expenses incurred for service calls or service supplied by anyone other than the Dukane AV Service Department.

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