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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH P42W22H. You'll find the answers to all your questions on the ZENITH P42W22H in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZENITH P42W22H
User guide ZENITH P42W22H
Operating instructions ZENITH P42W22H
Instructions for use ZENITH P42W22H
Instruction manual ZENITH P42W22H

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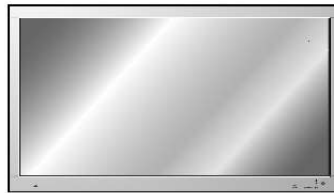
Please read this operating guide carefully before using the Monitor.
Keep the operating guide with the Monitor.
For future reference, write down the serial number on the back of the Monitor in the space provided below.

Model number :
Serial number :

PLASMA DISPLAY PANEL

P42W22
P42W22B
P42W22H

OWNER'S MANUAL



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Manual abstract:

Keep the operating guide with the Monitor. @@@@These defective cells may be visible as colored dots. @@@@- Do not connect ground to telephone wires, lightning rods or gas pipe. WARNING TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. Power supply cord/appliance coupler is used as the main disconnect device, and as such shall be easily accessible after installation.

ON/OFF INPUT SELECT VOLUME Table of Contents First Step WARNINGS

.....
.....

.....
.....
.....
.....

.....4 SAFETY INSTRUCTIONS...

.....
.....

.....
.....

..5 Monitor Overview Front Panel Controls ...

.....
.....
.....
.....

.....8 Connection Panel Overview

.....
.....

..9 Remote Control Key Functions/Accessories ...

.....

..10 Monitor Installation

.....
.....
.....

.12 Equipment Connections and Setup VCR Setup...

.....
.....
.....
.....

...14 Cable TV Setup ..

.....
.....
.....
.....

.....16 External AV Source Setup ...

.....

.....
.....
.....
.....
17 DVD Setup.....
.....

.....
.....
.....
.....
.....
.....
.....
.....
..18 DTV Setup ...
.....

.....
.....
.....
.....
.....
.....
.....
.....
....19 PC Setup .
.....

.....
.....
.....
.....
.....
.....
.....
.....
...20 PC Mode Feature Check (Overview)

.....
.....
.....
.....
.....
.....
.....
.....
....22 PC Mode Adjustments .
.....

.....
.....
.....
.....
.....
.....
.....
.....
.....23 Picture In Picture (PIP) Function ..

.....
.....
.....
.....
.....
.....
.....
.....
.....26 Remote Control Setup

.....
.....
.....
.....
.....
.....
.....
.....
29 Basic Features Setup and Operation Turning on the Monitor

.....
.....
.....
.....
.....
.....
.....
.....
...30 Menu Language Selection.....

.....
.....
.....
.....42 Color Temperature Adjustments
.....
.....
.....
.....43 Setting Picture Format.....
.....
.....
.....
.....44 External Control Device Setup ..
.....
.....
.....45 Others Maintenance .
.....
.....
.....
.....
.....
.....53 Troubleshooting Checklist ..
.....
.....
.....54 Product Specifications
.....
.....
.....
.....

55 Keep this manual with Monitor for future easy reference **WARNINGS WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.** The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. CAUTION: Do not attempt to modify this product in any way without written authorization from Zenith Electronics Corporation. Unauthorized modification could void the user's authority to operate this product. COMPLIANCE: The responsible party for this product's compliance is: Zenith Electronics Corporation 2000 Millbrook Drive Lincolnshire, Il 60069, USA Phone: 1-847-941-8000 FCC NOTICE · P42W22 : A Class A digital device This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. · P42W22B, P42W22H : A Class B digital device This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: - Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver. - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help.

4 Safety instructions Monitor Overview SAFETY INSTRUCTIONS Important safeguards for you and your new product Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference. Observing the simple precautions discussed in this booklet can help you get many years of enjoyment and safe operation that are built into your new product. This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association. Connections

1. Read Instructions All the safety and operating instructions should be read before the product is operated. 2.

Follow Instructions All operating and use instructions should be followed. slide or fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. Basic operation 3.

Retain Instructions The safety and operating instructions should be retained for future reference. 8. Transporting Product Sleep timer 4. Heed Warnings All warnings on the product and in the operating instructions should be adhered to. A product and cart combination should be moved with care.

Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn. Picture & Sound 5. Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. PORTABLE CART WARNING 9.

Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards. Special features 6. Water and Moisture Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool. 10.

Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered.



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(When connecting S-Video, select the SVIDEO option.) Insert a video tape into the VCR and press the PLAY button on the VCR. See VCR owner's manual. 15

Others Cable TV Setup - After subscribing to a cable TV service from a local provider and installing a converter, you can watch cable TV programming. This monitor cannot display TV programming without a TV tuner or cable TV converter box. Speakers shown for illustration only. EXTERNAL SPEAKER (8) AV INPUT S-VIDEO COMPONENT (480i/480p/720p/1080i) (DVD/DTV INPUT) RGB-PC INPUT(VGA/SVGA/XGA/SXGA) RGB-DTV INPUT (480p/720p/1080i) AUDIO INPUT RS-232C L AC INPUT (+) R () () L (+) R AUDIO L (MONO) VIDEO Y PB PR R AUDIO EXTERNAL SPEAKER(8) AV INPUT R AUDIO L S-VIDEO COMPONENT(480i/480p/720p/1080i) RGB-PC INPUT (VGA/SVGA/XGA) RGB-DTV INPUT (480p/720p/1080i) (DVD/DTV INPUT) Y AUDIO INPUT RS-232C (+) R () () L (+) (MONO) VIDEO PB PR R L Monitor Connection Panel (R) AUDIO (L) TV VCR VIDEO Cable Box Connection Panel RF Cable To watch cable TV 1 2 Use the video/pc button on the remote control to select the VIDEO source. Tune to cable service provided channels using the cable box. video/pc Tip 16 · For further information regarding cable TV service, contact your local cable TV service provider(s). Safety instructions Monitor Overview External AV Source Setup - As shown below, when connecting the Monitor to an external source, match the colors of AV input jacks on the Monitor with the output jacks on the audio/video equipment: Video = yellow, Audio (Left) = white, Audio (Right) = red. Connections EXTERNAL SPEAKER (8) AV INPUT S-VIDEO COMPONENT (480i/480p/720p/1080i) (DVD/DTV INPUT) RGB-PC INPUT(VGA/SVGA/XGA/SXGA) RGB-DTV INPUT (480p/720p/1080i) AUDIO INPUT RS-232C L AC INPUT (+) R () () L (+) R AUDIO L (MONO) VIDEO Y PB PR R AUDIO Basic operation EXTERNAL SPEAKER(8) AV INPUT R AUDIO L S-VIDEO COMPONENT(480i/480p/720p/1080i) (DVD/DTV INPUT) Y RGB-PC INPUT (VGA/SVGA/XGA) RGB-DTV INPUT (480p/720p/1080i) AUDIO INPUT RS-232C (+) R () () L (+) (MONO) VIDEO PB PR R L Sleep timer Monitor Connection Panel Camcorder Picture & Sound R AUDIO L VIDEO Video game set DDR Special features To watch external AV source 1 2 Use the video/pc button on the monitor's remote control or INPUT SELECT on the monitor to select the VIDEO source. Operate the corresponding external equipment. See external equipment operating guide. video/pc Others 17 DVD Setup How to connect a DVD (digital video disk player) · Connect DVD video outputs to Y, PB, PR of COMPONENT (480i/480p/720p/1080i) (DVD/DTV INPUT) and audio inputs to Audio jacks of AV INPUT. EXTERNAL SPEAKER (8) AV INPUT S-VIDEO COMPONENT (480i/480p/720p/1080i) (DVD/DTV INPUT) RGB-PC INPUT(VGA/SVGA/XGA/SXGA) RGB-DTV INPUT (480p/720p/1080i) AUDIO INPUT RS-232C L AC INPUT (+) R () () L (+) R AUDIO L (MONO) VIDEO Y PB PR R AUDIO EXTERNAL SPEAKER(8) AV INPUT R AUDIO L S-VIDEO COMPONENT(480i/480p/720p/1080i) (DVD/DTV INPUT) Y RGB-PC INPUT (VGA/SVGA/XGA) RGB-DTV INPUT (480p/720p/1080i) AUDIO INPUT RS-232C (+) R () () L (+) (MONO) VIDEO PB PR R L Monitor Connection Panel (R) AUDIO (L) B R DVD Connection Panel How to use · Turn on the DVD player, and insert a DVD. · Use the video/pc button on the monitor's remote control to select COMPONENT. See the DVD player's operating guide for operating instructions. · Component Input ports Connect DVD player jacks to Monitor Component input jacks as indicated below. Component input jacks on the Monitor Y Y Y Y Y PB PR Video output jacks of DVD player Pr Pb B-Y R-Y Cr Cb PB PR 18 Safety instructions Monitor Overview DTV Setup - To watch digitally broadcast programs, purchase/connect a digital SET-TOP BOX. - You can only use the 16:9 picture format in DTV 720p/1080i mode. How to connect a user-supplied Digital Set-top Box · You can use either the Monitor's COMPONENT (Y, Pb, Pr) inputs or the single RGB-DTV INPUT for video connections, depending on your Set Top Box connectors. Then, make the corresponding Audio connections. See the diagram below for either setup. Connections Basic operation EXTERNAL SPEAKER (8) AV INPUT S-VIDEO COMPONENT (480i/480p/720p/1080i) (DVD/DTV INPUT) RGB-PC INPUT(VGA/SVGA/XGA/SXGA) RGB-DTV INPUT (480p/720p/1080i) AUDIO INPUT RS-232C L AC INPUT (+) R () () L (+) R AUDIO L (MONO) VIDEO Y PB PR R AUDIO COMPONENT(480i/480p/720p/1080i) EXTERNAL SPEAKER(8) AV INPUT R AUDIO L S-VIDEO (DVD/DTV INPUT) Y RGB-PC INPUT (VGA/SVGA/XGA) RGB-DTV INPUT (480p/720p/1080i) AUDIO INPUT RS-232C (+) R () () L (+) (MONO) VIDEO PB PR R L Sleep timer Monitor Connection Panel Picture & Sound Special features or (R) AUDIO (L) (R) AUDIO (L) B R DTV OUTPUT Digital Set-top Box Connection Panel How to use Others · Turn on the digital SET-TOP BOX, refer to the owner's manual.

· Use the video/pc button on the remote control to select COMPONENT or RGBsource. 19 PC Setup - Show your computer's image on the monitor. How to connect Make the connections shown in the illustration below. · Set the computer video output to SXGA (1280x1024) or lower resolution. (If the video output of the PC is not compatible with the Monitor, no picture will appear on the Monitor. See page 21.) · As shown below, connect the video output of the PC to the Monitor RGB-PC INPUT (VGA/SVGA/XGA) RGB-DTV INPUT (480p/720p/1080i). · Connect the audio out from the PC to the Audio jacks on the Monitor. (Audio cables are not included with the Monitor) · If available, adjust PC sound to your preference. · To set up this monitor in a PC Windows environment, select Normal, Standard, or Default monitor.

This monitor does not support Plug and Play function. EXTERNAL SPEAKER (8) AV INPUT S-VIDEO COMPONENT (480i/480p/720p/1080i) (DVD/DTV INPUT) RGB-PC INPUT(VGA/SVGA/XGA/SXGA) RGB-DTV INPUT (480p/720p/1080i) AUDIO INPUT RS-232C L AC INPUT (+) R () () L (+) R AUDIO L (MONO) VIDEO Y PB PR R AUDIO COMPONENT(480i/480p/720p/1080i) EXTERNAL SPEAKER(8) AV INPUT R AUDIO L S-VIDEO (DVD/DTV INPUT) Y RGB-PC INPUT (VGA/SVGA/XGA) RGB-DTV INPUT (480p/720p/1080i) AUDIO INPUT RS-232C (+) R () () L (+) (MONO) VIDEO PB PR R L Monitor Connection Panel How to use video/pc On the remote control · Turn the PC on and press ON/OFF button on the Monitor, to go to standby mode.



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Then press button on the Monitor or press power on on the remote control. · Use the video/pc button on the remote control to select the RGB source. · Set the resolution output of the PC to XGA (1024x768) or lower.

(Refer to page 21.) Tip · Avoid displaying a still or fixed image on the monitor screen for a long period of time. Doing so may imbed that image on the screen permanently. 20 Safety instructions Monitor Overview Monitor Display Specifications Resolution 640x350 640x400 Horizontal Vertical Frequency (KHz)

Frequency (Hz) 31.468 37.

861 31.469 37.927 31.469 35.000 37.861 37.500 43.269 45.913 53.011 64.

062 35.156 37.879 48.077 46.875 53.674 56.000 64.016 49.725 48.363 56.

476 60.023 68.677 70.09 85.08 70.

08 85.03 59.94 66.66 72.80 75.

00 85.00 90.03 100.04 120.00 56.25 60.31 72.18 75.00 85.06 90.

00 100.00 74.55 60.00 70.06 75.02 84.99 Connections Basic operation 640x480 Sleep timer 800x600 Picture & Sound 832x624 Special features 1024x768

Others Tip · Synchronization input form: Signals are separate. 21 PC Mode Feature Check (Overview) - Use video/pc on remote to select RGB mode. - Make sure the PC and monitor are both turned on. - Use the monitor's remote control to make adjustments.

menu 1 2 Press the menu button to show a menu on screen. Use the up/down button to select a menu. · Each press will cycle through the different menus as shown below. PICTURE APC DRP CONTRAST BRIGHTNESS COLOR TINT SHARPNESS D MOVE E G G G G G G up down 85 50 50 0 50 GNEXT

AEXIT <Picture Menu> SOUND DASP AVL TREBLE BASS BALANCE G G G G G 50 50 0 D MOVE E GNEXT AEXIT <Sound Menu> SPECIAL LANGUAGE ARC SCREEN TRANSPARENCY PIP SET ID COLOR TEMP. D MOVE E G G G G G GNEXT AEXIT <Special Menu> - The Color Temperature adjustment is only available on models P42W22B and P42W22H.

up vol down vol 3 Press the vol (G) button and then use the up/down or vol buttons to select a feature you want to use. · Use the enter button to exit menus.

22 Safety instructions Monitor Overview PC Mode Adjustments Auto Adjustment - Automatically adjusts picture position and minimizes image shaking.

READY Connections Press the menu button and then use the up/down button to select the SPECIAL menu. Press the vol (G) button.

menu up vol down Basic operation 1 2 Use the up/down button to select SCREEN and then press the vol (G) button. up vol down SPECIAL LANGUAGE

ARC SCREEN SCREEN TRANSPARENCY PIP SET ID COLOR TEMP. G G G G G TO SET Sleep timer G G G Use the up/down button to select the AUTO.CONFIG. option and then press the vol (G) button. up vol down Picture & Sound AUTO.CONFIG. LANGUAGE AUTO.CONFIG. CAPTION V-POSITION AUTO OFF H-POSITION SCREEN PHASE RGB-OUTPUT RESET G G G G G GG TO G G G G SET Special features · When AUTO.

CONFIG. has finished, "OK" will be shown on screen. · If the position of the image is still not correct, try Auto adjustment again. 3 If picture needs to be adjusted more after Auto adjustment, you can manually adjust the image position and PHASE. Others Tip · If the image is still not correct, your Monitor is functioning properly but needs further adjustment. 23 PC Mode Adjustments Adjusting horizontal / vertical position manually - Only adjust V-POSITION and H-POSITION in DTV or component 480p/720p/1080i. READY Press the menu button and then use the up/down button to select the SPECIAL menu. Press the vol (G) button. menu up vol down 1 2 Use the up/down button to select SCREEN and then press the vol (G) button. up vol down SPECIAL LANGUAGE

ARC SCREEN SCREEN TRANSPARENCY PIP SET ID COLOR TEMP.

G G G G G G G TO SET Use the up/down button to select V-POSITION or H-POSITION and then press the vol (G) button. up vol down LANGUAGE AUTO.CONFIG. CAPTION V-POSITION V-POSITION AUTO OFF H-POSITION SCREEN PHASE RGB-OUTPUT RESET G G G G G G G G G 0 3 Use the vol buttons to adjust to get the desired horizontal or vertical position and then press the enter button to remove menus. · The adjustment range of V-POSITION is -50 ~ +50.

· The adjustment range of H-POSITION is -100 ~ +100. · Based on the input mode, the adjustment range of V-POSITION/H-POSITION may change. · Based on the VGA card, the adjustment range of V-POSITION/H-POSITION may be out of -100 ~ +100 after auto configure. · Based on the input signal, the position of the picture may not change even though you have adjusted the horizontal or vertical positions. vol vol enter 24 Safety instructions Monitor Overview Picture Phase Adjustments · If the picture isn't clear after auto adjustment and especially if the characters are still trembling, then adjust the picture phase manually.

· The SCREEN menu option will not be selectable if PIP is active. READY Connections Press the menu button and then use the up/down button to select the SPECIAL menu. @@@@- Select RGB input source before pressing PIP. @- Color of main picture may be different from PIP's in PIP mode. @- When watching PIP, SCREEN option is not selectable in Special menu. @@@@- Install two 1.5V "AA" alkaline batteries. @- Don't place the remote control near a heater or damp place. Strong impact on the remote control may cause operation failure. @@@@At this moment, the Monitor is switched to standby mode.

· The SCREEN menu option will not be selectable if PIP is active. READY Connections Press the menu button and then use the up/down button to select the SPECIAL menu. @@@@- Select RGB input source before pressing PIP. @- Color of main picture may be different from PIP's in PIP mode. @- When watching PIP, SCREEN option is not selectable in Special menu. @@@@- Install two 1.5V "AA" alkaline batteries. @- Don't place the remote control near a heater or damp place. Strong impact on the remote control may cause operation failure. @@@@At this moment, the Monitor is switched to standby mode.

· The SCREEN menu option will not be selectable if PIP is active. READY Connections Press the menu button and then use the up/down button to select the SPECIAL menu. @@@@- Select RGB input source before pressing PIP. @- Color of main picture may be different from PIP's in PIP mode. @- When watching PIP, SCREEN option is not selectable in Special menu. @@@@- Install two 1.5V "AA" alkaline batteries. @- Don't place the remote control near a heater or damp place. Strong impact on the remote control may cause operation failure. @@@@At this moment, the Monitor is switched to standby mode.

@@@@- To check remaining sleep time after setting, press the sleep or enter button just once. · If you turn the Monitor off after setting the sleep timer, the setting is erased. The sleep timer will then have to be set again. 33 Others Auto Picture Control Use APC to adjust the Monitor for the best picture appearance - APC is not available in RGB or PIP mode. APC (Auto Picture Control) apc 1 Press the apc button. 2 Press the apc or vol buttons to select the picture appearance setup. APC F CLEAR G · Each press of vol buttons selects the menu option as shown below. CLEAR SOFT USER · You can also select CLEAR, SOFT or USER in the PICTURE menu. User refers to adjustments made to the picture menu options. See next page.

34 Safety instructions Monitor Overview Adjusting Picture Appearance - PIP picture settings are not adjustable. READY Connections Press the menu button and then use the up/down button to select the PICTURE menu. Press the vol (G) button. menu up vol down Basic operation 1 Example : Changing the contrast. Use the up/down button to select CONTRAST and then press the vol (G) button.

up Sleep timer PICTURE APC DRP CONTRAST BRIGHTNESS COLOR TINT SHARPNESS G G 100 50 50 0 50 G G G G G Picture & Sound vol down 2 Use the vol buttons to make appropriate adjustments and then press the enter button.



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· Use the up/down buttons to select other menu options. Special features PICTURE APC DRP CONTRAST BRIGHTNESS COLOR TINT SHARPNESS G G G G G G G 70 50 0 0 50 vol vol enter Others · Adjust BRIGHTNESS, COLOR, TINT and SHARPNESS in the same way. 35 DRP (Digital Reality Picture) DRP improves image outlines in dark screens. - This feature works in both video and component 480i modes.

READY Press the menu button and use press the up/down button to select the PICTURE menu. Press the vol (G) button. menu up vol down 1 Use the up/down button to select DRP and then press the vol (G) button. up vol down PICTURE APC DRP CONTRAST BRIGHTNESS COLOR TINT SHARPNESS 100 50 50 0 50 G G G G G G CLEAR SOFT 2 Use the up/down button to select CLEAR or SOFT. up PICTURE APC DRP CONTRAST BRIGHTNESS COLOR TINT SHARPNESS G G G G G G 100 50 50 0 50 CLEAR SOFT down 3 36 Press the enter button to exit. enter Safety instructions Monitor Overview Adjusting Sound Manual setting READY Press the menu button and then use the up/down button to select the SOUND menu. Press the vol (G) button. menu up vol down Connections Basic operation 1 Example Adjustment: Treble Use the up/down buttons to select TREBLE and then press the vol (G) button. up vol down SOUND DASP AVL TREBLE BASS BALANCE G G 50 50 50 0 G G G Sleep timer Picture & Sound 2 Use the vol buttons to make appropriate adjustments and then press the enter button to exit. · Use the up/down buttons to select other options.

SOUND Special features DASP AVL TREBLE BASS BALANCE G G 70 50 0 G G G vol vol enter Others · Adjust BASS and BALANCE in the same way. 37 Auto Sound Control DASP (Digital Auto Sound Processing) · This feature lets you enjoy the best sound without any manual adjustment. The Monitor automatically selects the appropriate audio tone levels based on the program content. easy sound 1 2 Press the easy sound button. Use the easy sound or vol buttons to select a sound setup. DASP F USER G · Each press of easy sound or vol buttons changes menu option as shown below. FLAT USER SPORTS MUSIC CINEMA · You can also select FLAT, SPORTS, CINEMA, MUSIC or USER in the SOUND menu. 38 Safety instructions Monitor Overview AVL (Auto Volume Leveler) AVL maintains a consistent volume level; even if you change channels. READY Connections Press the menu button and then use the up/down button to select the SOUND menu. Press the vol (G) button.

menu up vol Basic operation down 1 Use the up/down button to select AVL and then press the vol (G) button. up vol down SOUND DASP AVL TREBLE BASS BALANCE 50 50 0 G G G G ON OFF Sleep timer G Picture & Sound 2 Use the up/down button to select ON or OFF. up SOUND DASP AVL TREBLE BASS BALANCE G G 50 50 0 G G G ON OFF Special features down 3 Press the enter button to exit. Others enter 39 Using Still function - This feature isn't available for RGB input source. - Use with the A/V or COMPONENT video input sources.

freeze 1 Press the freeze button. · The image displayed is frozen (stilled). · The sub picture is stilled in PIP mode. · In PIP mode, the sub (inset) picture is frozen. Moving Image Still (frozen) Image 2 Tip To return to normal viewing, press the freeze button again. · If a still picture is on the screen for more than 5 minutes, the image darkens. This is a protective feature designed to lessen the chance of a ghost image burning onto the monitor screen. If another function is activated, normal screen brightness is restored. · This is a protective feature designed to reduce a ghost image burning into the monitor. 40 Safety instructions Monitor Overview Using the screen options - This function is for video mode. - Use this option to correct trembling or instability of a videotape image. READY Connections Press the menu button and use press the up/down button to select the SPECIAL menu. Press the vol (G) button. menu up vol down Basic operation 1 Use the up/down button to select SCREEN and then press the vol (G) button. up vol down SPECIAL LANGUAGE ARC SCREEN TRANSPARENCY PIP SET ID COLOR TEMP.

G G G G G G TV VCR Sleep timer Picture & Sound 2 Use the up/down buttons to select TV or VCR. · Select the VCR option if watching a VCR. · Select the TV option for other equipment.(Except VCR) · Each time you press the D / E button you toggle between TV and VCR. up SPECIAL LANGUAGE ARC SCREEN TRANSPARENCY PIP SET ID COLOR TEMP. G G G G G G TV VCR VCR Special features down 3 Press the enter button to remove menu from screen. Others enter 41 Adjusting OSD Transparency Makes the menu backgrounds clear or opaque READY Press the menu button and then use the up/down button to select the SPECIAL menu. Press the vol (G) button. menu up vol down 1 Use the up/down button to select TRANSPARENCY and then press the vol (G) button. up vol down SPECIAL LANGUAGE ARC SCREEN TRANSPARENCY PIP SET ID COLOR TEMP.

G G G G G G 3 2 Use the vol buttons to adjust OSD transparency. · The TRANSPARENCY adjustment range is 1 ~ 4. SPECIAL LANGUAGE ARC SCREEN TRANSPARENCY PIP SET ID COLOR TEMP. G G G G G G 3 vol vol 3 42 Press the enter button to remove menu from screen. enter Safety instructions Monitor Overview Color Temperature Adjustments - Color Temperature adjustments are only available on models P42W22B and P42W22H. - Adjustments also affect the color temperature of other input sources. Readjust color temperature for PC input (RGB) if necessary. - To restore factory settings, select '0' in RED, GREEN, and BLUE. READY Connections Press the menu button and then press the up/down button to select the SPECIAL menu. Press the vol (G) button.

menu up vol down Basic operation 1 Press the up/down button to select COLOR TEMP. and then press the vol (G) button. up vol down SPECIAL LANGUAGE ARC SCREEN TRANSPARENCY PIP SET ID COLOR TEMP. G Sleep timer G G G G G G TO SET Picture & Sound 2 Press the up/down button to select RED and then press the vol (G) button. (to adjust RED setting) up vol down RED LANGUAGE RED CAPTION GREEN AUTO OFF BLUE SCREEN RGB-OUTPUT G G G G G G 0 Special features · Adjust GREEN and BLUE in the same way. 3 Use the vol button to make appropriate adjustments and then press the enter button. vol vol enter Others · The adjustment range of RED, GREEN and BLUE is -5 ~ +5. 43 Setting Picture Format - For the RGB-PC source, you can select either 16:9 or 4:3 screen aspect ratios. - For the RGB-DTV (720p, 1080i) source, select the 16:9 screen aspect ratio.



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- If 4:3 mode is used for a long time, the outline of the image may remain on the screen after you change to the 16:9 screen aspect ratio.

- Don't display 4:3 picture format continuously for more than 10 hours. ratio Use the ratio button to select the desired picture format. · Each time you press ratio or vol buttons, you cycle through 16:9, 4:3, and ZOOM. ARC F 16 : 9 G 16:9 ARC F 4:3 G 4:3 ARC F ZOOM G Zoom · You can also select the 16:9, 4:3, or ZOOM option using the SPECIAL menu. 44 Safety instructions Monitor Overview External Control Device Setup - Connect the RS-232C input jack to an external control device (such as a computer or an A/V control system) and control the Monitor's functions externally. How to connect external control equipment · Connect the serial port of the control device to the RS-232C jack on the Monitor back panel. · RS-232C connection cables are not supplied with the Monitor. · The Monitor remote control and front panel controls (except main power) will not be functional if the Monitor is controlled by a PC computer or other external device. Connections Basic operation EXTERNAL SPEAKER (8) AV INPUT S-VIDEO COMPONENT (480i/480p/720p/1080i) (DVD/DTV INPUT) RGB-PC INPUT(VGA/SVGA/XGA/SXGA) RGB-DTV INPUT (480p/720p/1080i) AUDIO INPUT R AUDIO L RS-232C AC INPUT (+) R () L (+) R AUDIO L (MONO) VIDEO Y PB PR Sleep timer COMPONENT(480i/480p/720p/1080i) EXTERNAL SPEAKER(8) (+) R () L (+) AV INPUT R AUDIO L (MONO) S-VIDEO VIDEO (DVD/DTV INPUT) Y RGB-PC INPUT (VGA/SVGA/XGA) RGB-DTV INPUT (480p/720p/1080i) AUDIO INPUT RS-232C AC INPUT Picture & Sound PB PR R L Monitor Rear Connections Panel Special features Others 45 External Control Device Setup Type of connector : D-Sub 9-pin male 1 No. 1 2 3 4 5 6 7 8 9 Pin name No connection RXD (Receive data) TXD (Transmit data) DTR (DTE side ready) GND DSR (DCE side ready) RTS (Ready to send) CTS (Clear to send) No Connection 5 Pin No.

4 and Pin No.6 must be connected on monitor side. 9 6 * Use a null modem cable. Wire the 7-Wire cable so that each pair of data lines cross between the two devices. These data line pairs are RXD (Receive data) and TXD (Transmit data), DTR (DTE side ready) and DSR (DCE side ready), and RTS (Ready to send) and CTS (Clear to send).

When using the 3-Wire cable connected to RXD, TXD and GND; Pin No. 4 (DTR) and Pin No. 6 (DSR) must be connected to the monitor. (The cable must be disconnected from the Monitor to be able to use the remote control and Monitor front panel controls.) * With the RS-232 input connected, the Monitor cannot be controlled by both an external control device and the remote control at the same time.

The Monitor can only be controlled by either the remote control or the external control device. RS-232C configurations 7-wire configuration (Standard RS-232C cable) PC RXD TXD GND DTR DSR RTS CTS 2 3 5 4 6 7 8 DB 9 Control line 7-Wire Cable Configuration · The Monitor is available to switch between external adjustment and remote control adjustment using a control line. Note: If the control line is high, the monitor is controlled by the external control device. If the control line is low, the Monitor is controlled by the Monitor's remote control. 3-Wire Cable Configuration · When using a 3-Wire cable configuration there is no control line. The external control device must put the Monitor into the "change into remote control adjustment mode" (see page 52). The Monitor will then be able to be controlled by the remote control. If the Monitor is turned back on, it will revert back to external device control. PDP 3 2 5 6 4 8 7 DB 9 TXD RXD GND DSR DTR CTS RTS RXD TXD GND DTR DSR RTS CTS 3-wire configuration (Not standard) PC 2 3 5 4 6 7 8 DB 9 PDP 3 2 5 4 6 7 8 DB 9 TXD RXD GND DTR DSR RTS CTS 46 Safety instructions Monitor Overview SET ID · Once SET ID is selected, use the vol button to choose a monitor ID number. READY Connections Press the menu button and then use the up/down button to select the SPECIAL menu.

Press the vol (G) button. menu up vol down Basic operation Sleep timer 1 Use the up/down buttons to select SET ID and then press the vol (G) button.

SPECIAL LANGUAGE ARC SCREEN TRANSPARENCY PIP SET ID SET ID COLOR TEMP. G G G G G G G 1 Picture & Sound up vol down Special features 2 Use the vol button to adjust SET ID to choose a desired monitor ID number. · The adjustment range for SET ID is 1 ~ 99. SPECIAL LANGUAGE ARC SCREEN TRANSPARENCY PIP SET ID COLOR TEMP. G G G G G G G 1 1 vol vol Others 47 External Control Device Setup - The RS-232C input jack is used to control the Monitor's functions using an external control device. Communication Parameters · Baud rate : 2400 bps (UART) · Data length : 8 bits · Parity : None · Stop bit : 1 bit · Communication code : ASCII code * If the command interval is interrupted for more than 4 seconds, only Command 1 will be recognized. Be careful when using the power command. Transmission / Receiving Protocol Transmission [Command][][Set ID][][Data][Cr] * [Command] : To control PDP set.

: You can adjust the set ID to choose * [Set ID] desired monitor ID number in special menu. See page 47. Adjustment range is 1 ~ 99. When selecting Set ID '0', every connected PDP set is controlled. : To transmit command data.

* [DATA] Transmit FF' data to read status of command. : Carriage Return * [Cr] ASCII code 0x0D' : ASCII code space (0x20)' * [] OK Acknowledgement [Set ID][:][OK][x][Data][x] Command Reference List NAME 01. Power 02. Input Select 03. Aspect Ratio 04.

Screen mute 05. Volume mute 06. Volume control 07. Contrast 08. Brightness 09. Color 10. Tint 11. Sharpness 12. OSD select 13. Abnormal state 14.

PIP 15. PIP input select 16. PIP sound select 17. PIP position 18. remote control adjustment mode COMMAND p i r m w v k b c t s d a z e u x j DATA RANGE 0~1 0~3 0~2 0~1 0~1 0~64 0~64 0~64 0~64 0~64 0~1 0~1 0~3 0~1 0~1 0~3 0~1 * The Monitor transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer. Error Acknowledgement [Set ID][:][NG][x] * The Monitor transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors. 48 Safety instructions Monitor Overview 01. Power (Command:p) G To control Power On/Off of the Monitor.

Transmission [p][][Set ID][][Data][Cr] Data 0 : Power Off 1 : Power On * Example : Power on for set ID No.3. Type : P 3 1 0x0D' Acknowledgement [Set ID][:][OK][x][Data][x] Data 0 : Power Off 1 : Power On * In example : Monitor Acknowledges power on for set ID No.



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3. G To show Power On/Off.

Transmission [p][][Set ID][][FF][Cr] Acknowledgement [Set ID][:][OK][x][Data][x] Data 0 1 2 3 4 : : : : Power Power Power Power Power Off On On On On 03. Aspect Ratio (Command:r) G To adjust the screen format. You can also adjust the screen format using the ratio (Aspect Ratio Control) button on remote control or in the Special menu. Transmission [r][][Set ID][][Data][Cr] Data 0 : Wide screen (16:9) 1 : Normal screen (4:3) 2 : Full screen (Zoom) Acknowledgement [Set ID][:][OK][x][Data][x] Data 0 : Wide screen (16:9) 1 : Normal screen (4:3) 2 : Full screen (Zoom) * Using the PC input, you select either 16:9 or 4:3 screen aspect ratio. * Using the DTV 720p/1080i input, you can only select 16:9 screen aspect ratio.

Connections Basic operation 04. Screen mute (Command:m) (RGB) (Video) (Component) (S-Video) G To select screen mute on/off. Sleep timer Transmission [m][][Set ID][][Data][Cr] Data 0 : Screen mute on (Picture off) 1 : Screen mute off (Picture on) Acknowledgement [Set ID][:][OK][x][Data][x] Data 0 : Screen mute on (Picture off) 1 : Screen mute off (Picture on) * In like manner, if other functions transmit 'FF' data based on this format, Acknowledgement data feed back presents status about each function. Picture & Sound 02. Input select (Command:i) G To select input source for the Monitor. You can also select an input source using the video/pc button on the Monitor's remote control. Transmission [i][][Set ID][][Data][Cr] Data 0 : RGB 1 : AV (Video) 2 : Component 3 : S-AV (S-Video) Acknowledgement [Set ID][:][OK][x][Data][x] Data 0 1 2 3 : RGB : AV (Video) : Component : S-AV (S-Video) 05. Volume mute (Command:w) G To control volume mute on/off. You can also adjust mute using the mute button on remote control. Transmission [w][][Set ID][][Data][Cr] Data 0 : Volume mute on (Volume off) 1 : Volume mute off (Volume on) Acknowledgement [Set ID][:][OK][x][Data][x] Data 0 : Volume mute on (Volume off) 1 : Volume mute off (Volume on) Special features Others 49 External Control Device Setup 06.

Volume control (Command:v) G To adjust volume. You can also adjust volume with the volume buttons on remote control. Transmission [v][][Set ID][][Data][Cr] Data Min : 0 ~ Max : 64 * Refer to 'Real data mapping' as shown below. Acknowledgement [Set ID][:][OK][x][Data][x] Data Min : 0 ~ Max : 64 09. Color (Command:c) G To adjust the screen color. You can also adjust color in the Picture menu. Transmission [c][][Set ID][][Data][Cr] Data Min : 0 ~ Max : 64 * Refer to 'Real data mapping' as shown below. Acknowledgement [Set ID][:][OK][x][Data][x] Data Min : 0 ~ Max : 64 10. Tint (Command:t) G To adjust the screen tint. You can also adjust tint in the Picture menu Transmission 07.

Contrast (Command:k) G To adjust screen contrast. You can also adjust contrast in the Picture menu. Transmission [k][][Set ID][][Data][Cr] Data Min : 0 ~ Max : 64 * Refer to 'Real data mapping' as shown below. Acknowledgement [Set ID][:][OK][x][Data][x] Data Min : 0 ~ Max : 64 [t][][Set ID][][Data][Cr] Data Red : 0 ~ Green : 64 * Refer to 'Real data mapping' as shown below. Acknowledgement [Set ID][:][OK][x][Data][x] Data Red : 0 ~ Green : 64 11.

Sharpness (Command:s) G To adjust the screen sharpness. You can also adjust sharpness in the Picture menu Transmission 08. Brightness (Command:b) G To adjust screen brightness. You can also adjust brightness in the Picture menu. Transmission [b][][Set ID][][Data][Cr] Data Min : 0 ~ Max : 64 * Refer to 'Real data mapping' as shown below.

Acknowledgement [Set ID][:][OK][x][Data][x] Data Min : 0 ~ Max : 64 [s][][Set ID][][Data][Cr] Data Min : 0 ~ Max : 64 * Refer to 'Real data mapping' as shown below. Acknowledgement [Set ID][:][OK][x][Data][x] Data Min : 0 ~ Max : 64 * Real data mapping 0 : Step 0 A : Step 10 F : Step 15 10 : Step 16 64 : Step 100 50 Safety instructions Monitor Overview 12. OSD select (Command:d) G To select OSD (On Screen Display) on/off. Transmission [d][][Set ID][][Data][Cr] Data 0 : OSD off 1 : OSD on Acknowledgement [Set ID][:][OK][x][Data][x] Data 0 : OSD off 1 : OSD on * The remote control and Monitor front panel controls (except main power) are not operable when the Monitor is set up to be controlled by the PC computer. 14. PIP (Command:z) G To control PIP (Picture-in-Picture). You can also control PIP using the pip button on remote control or in the Special menu. Transmission [z][][Set ID][][Data][Cr] Data 0 : PIP off 1 : PIP (small) 2 : PIP (large) Acknowledgement [Set ID][:][OK][x][Data][x] Data 0 : PIP off 1 : PIP (small) 2 : PIP (large) * PIP only works in the following resolutions: RGB PC 640x480 (VGA) / 800x600 (SVGA) / 1024x768 (XGA) (only in vertical frequency 60Hz), Component 480p / 720p / 1080i. Connections Basic operation Sleep timer 13. Abnormal state (Command:a) G To recognize an abnormal state.

@@@PIP sound select (Command:u) G To select main or sub (inset) sound for PIP. You can also select sound select in PIP on the special menu. Transmission [u][][Set ID][][Data][Cr] Data 0 : Main picture sound 1 : Sub picture sound Acknowledgement [Set ID][:][OK][x][Data][x] Data 0 : Main picture sound 1 : Sub picture sound * COMPONENT source only works in 480i input signal. 18. Change into Remote control adjustment mode (Command:j)

G To control the Monitor with the remote control while the cable is still connected. Transmission [j][][Set ID][][Data][Cr] Data 1 : Remote control adjustment mode Acknowledgement [Set ID][:][OK][x][Data][x] Data 0 : PC adjustment mode 1 : Remote control adjustment mode * If external equipment commands the Monitor to "change into remote control adjustment mode", the Monitor can only be adjusted by the remote control. To revert the Monitor control to external control device adjustment, turn the Monitor off and then on again. 17. PIP position (Command:x) G To select sub picture position for PIP. You can also adjust the sub picture position using the position button on the remote control or in PIP on the Special menu.

Transmission [x][][Set ID][][Data][Cr] Data 0 : Right down on screen 1 : Left down on screen 2 : Left up on screen 3 : Right up on screen Acknowledgement [Set ID][:][OK][x][Data][x] Data 0 1 2 3 : : : : Right down on screen Left down on screen Left up on screen Right up on screen 52 Safety instructions Monitor Overview Maintenance - Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have your new Monitor. Be sure to turn the power off and unplug the power cord before you begin any cleaning. Cleaning the screen 1. Here's a great way to keep the dust off your screen for a while.

Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen. 2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your Monitor.



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Connections Basic operation Sleep timer Cleaning the cabinet To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth. Please be sure not to use a wet cloth. Picture & Sound Special features Extended absence If you plan on leaving your Monitor dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges. Others 53 Troubleshooting Checklist · Check whether the Monitor is turned on. No picture & No sound · Power cord inserted into wall power outlet? · Plug another product's power cord into the wall outlet where the Monitor's power cord was plugged in to test outlet. Picture OK & No sound · Press the VOLUME (G) button. · Sound muted? Press MUTE button. · Check to see if there is any object between the Plasma Display and the remote control causing obstruction. The remote control doesn't work · Check to see if the batteries are installed with the correct polarities. (Refer to p.29) · Install new batteries.

(Refer to p.29) · Select COLOR in the PICTURE menu and press the VOLUME (G) button. (Refer to p.35) No or Poor color or Poor picture · Increase the distance between the Monitor and the VCR. · Activate any function to restore the brightness of the picture. (If still picture is on the screen for more than 5 minutes, the screen gets dark.) No output from one of the speakers · Adjust BALANCE in the SOUND menu. (Refer to p.37) · Is speaker connected? 54 Safety instructions Monitor Overview Product Specifications Connections MODEL Width (inches / mm) Height (inches / mm) Depth (inches / mm) Weight (pounds / kg) Power requirement Resolution Color P42W22, P42W22B, P42W22H 41.6 / 1056 25 / 635 3. 2 / 82 72.1 / 32.7 120V, 60Hz 852 x 480 (Dot) 16,770,000 (256 steps of each R, G and B) Basic operation Sleep timer Picture & Sound · The specifications shown above may be changed without prior notice for quality improvement. Special features Others 55 P/NO : 3828VA0296L a (NF01DC) 206-03788 .



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