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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH P60W38. You'll find the answers to all your questions on the ZENITH P60W38 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZENITH P60W38
User guide ZENITH P60W38
Operating instructions ZENITH P60W38
Instructions for use ZENITH P60W38
Instruction manual ZENITH P60W38

Installation and Operating Guide

Model Numbers | P60W38, P60W38H | PLASMA DISPLAY PANEL



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Manual abstract:

REFER TO QUALIFIED SERVICE PERSONNEL. @@@@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. @@@@Observing the simple precautions discussed in this manual can help you get the 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.

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. 3.

Retain Instructions The safety and operating instructions should be retained for future reference. 4. Heed Warnings All warnings on the product and in the operating instructions should be adhered to. 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. 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. 7. Accessories, Carts, and Stands Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may 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. 8.

Transporting Product 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. 9. Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards. 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. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. 11. Power Sources This product should be operated only from the type of power source indicated on the marking label.

If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions. 12. Power-Cord Polarization This product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into the grounding-type power outlet.

This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug. 13. Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

PORTABLE CART WARNING Owner's Manual 3 Safety Instructions Safety Instructions continued 14. Outdoor Antenna Grounding If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. Example of Grounding According to National Electrical Code Instructions 19.

19. Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. 20.

Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: a. If the power-supply cord or plug is damaged. b. If liquid has been spilled, or objects have fallen into the product. c. If the product has been exposed to rain or water. d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation. e.

If the product has been dropped or the cabinet has been damaged. f. If the product exhibits a distinct change in performance. 21. Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part.

Unauthorized substitutions may result in fire, electric shock, or other hazards. 22. Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition. 23. Wall or Ceiling Mounting The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. 24. Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. Ground Clamp Antenna Lead in Wire Antenna Discharge Unit (NEC Section 810-20) Grounding Conductor (NEC Section 810-21) Ground Clamps Power Service Grounding Electrode System (NEC Art 250, Part H) Electric Service Equipment NEC - National Electrical Code 15. Lightning For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system.



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- For further information regarding cable TV service, contact your local cable TV service provider(s). How to connect 1.

Connect the provided BNC-RCA adapter to the monitor's VIDEO INPUT. 2. Connect the audio and video cables from the Cable Box's output jacks to the monitor input jacks, as shown in the figure. When connecting the monitor to a Cable Box, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red). R AUDIO L Y PB PR R AUDIO L (MONO) AUDIO INPUT COMPONENT INPUT S-VIDEO VIDEO INPUT AUDIO INPUT How to use 1.

Use the INPUT SELECT button on the remote control to select Video. 2. Select your desired channel with the remote control for cable box. (R) AUDIO (L) TV VCR VIDEO RF Cable Cable Box Owner's Manual 11 Installation External A/V Source Setup How to connect 1. Connect the provided BNC-RCA adapter to the monitor's VIDEO INPUT. 2. Connect the audio and video cables from the external equipment's output jacks to the monitor input jacks, as shown in the figure. When connecting the monitor to external equipment, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red). R AUDIO L Y PB PR R AUDIO L (MONO) AUDIO INPUT COMPONENT INPUT S-VIDEO VIDEO INPUT AUDIO INPUT Camcorder How to use 1. Use the INPUT SELECT button on the remote control to select Video.

2. Operate the corresponding external equipment. Refer to external equipment operating guide. Video Game Set R AUDIO L VIDEO DVD Setup How to connect 1. Connect the DVD video outputs to the COMPONENT (Y, PB, PR) INPUT jacks and connect the DVD audio outputs to the AUDIO INPUT jacks on the monitor, as shown in the figure. 2. If your DVD only has an S-Video output jack, connect this to the S-VIDEO input on the monitor and connect the DVD audio outputs to the AUDIO INPUT jacks on the monitor, as shown in the figure. R AUDIO L Y PB PR R AUDIO L (MONO) AUDIO INPUT COMPONENT INPUT S-VIDEO VIDEO INPUT AUDIO INPUT How to use 1. Turn on the DVD player, insert a DVD. 2.

Use the INPUT SELECT button on the remote control to select Component. (If connected to S-VIDEO, select the S-Video external input source.) 3. Refer to the DVD player's manual for operating instructions. - Component Input ports To get better picture quality, connect a DVD player to the component input ports as shown below.

Component ports of the Monitor Y Y Y Y Y PB PR or (R) AUDIO (L) B R (R) AUDIO (L) S-VIDEO DVD DTV Setup - To watch digitally broadcast programs, purchase and connect a digital set-top box. - This monitor supports HDCP (High-bandwidth Digital Contents Protection) protocol for DVI DTV (480p, 720p, 1080i) mode. Video output ports of DVD player Pr Pb B-Y R-Y Cb Cr PB PR How to connect 1. Use the monitor's COMPONENT (Y, PB, PR) INPUT, RGB or DVI jack for video connections, depending on your set-top box connector. Then, make the corresponding audio connections.

RS-232C INPUT (CONTROL/SERVICE) R AUDIO L Y PB PR R AUDIO L (MONO) DVI INPUT RGB INPUT AUDIO INPUT RGB OUTPUT AUDIO INPUT COMPONENT INPUT S-VIDEO VIDEO INPUT AUDIO INPUT How to use 1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.) 2. Use INPUT SELECT on the remote control to select Component, RGB, or DVI. Signal 480i 480p 720p 1080i Component Yes Yes Yes Yes RGB-DTV, DVI-DTV No Yes Yes Yes or DVI-DTV OUTPUT (R) AUDIO (L) RGB-DTV OUTPUT (R) AUDIO (L) or (R) AUDIO (L) B R Digital Set-top Box 12 Plasma Display Installation PC Setup - This monitor provides Plug and Play capability, meaning that the PC adjusts automatically to its settings. The monitor sends configuration information (EDID) to the PC using the Video Electronics Standard Association (VESA) Display Data Channel (DDC) protocol. - The monitor perceives 640x480, 60Hz as DTV 480p based on the PC graphic card. In this case, change the screen scanning rate for the graphic card. How to connect 1.

To get the best picture quality, adjust the PC graphics card to a 1024x768, 60Hz. Resolutions over UXGA cannot be displayed. 2. Use the monitor's RGB INPUT or DVI (Digital Visual Interface) INPUT port for video connections, depending on your PC connector. If the graphic card on the PC does not output analog and digital RGB simultaneously, connect only one of either RGB INPUT or DVI INPUT to display the PC on the monitor. If the graphic card on the PC does output analog and digital RGB simultaneously, set the monitor to either RGB or DVI; (the other mode is set to Plug and Play automatically by the monitor.) 3. Then, make the corresponding audio connections. If using a sound card, adjust the PC sound as required. () R () RS-232C INPUT (CONTROL/SERVICE) () L () DVI INPUT RGB INPUT AUDIO INPUT RGB OUTPUT REMOTE CONTROL EXTERNAL SPEAKER How to use 1. Turn on the PC and the monitor. 2. Turn on the display by pressing the POWER button on the monitor's remote control. 3. Use the INPUT SELECT button on the remote control to select RGB or DVI.

4. Check the image on your monitor. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC mode to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.

NOTES: · Depending on the graphics card, DOS mode may not work if you use a DVI-I cable. · Avoid keeping a fixed image on the monitor's screen for a long period of time. The fixed image may become permanently imprinted on the screen. Use the Orbiter screen saver when possible. · The synchronization input form for Horizontal and Vertical frequencies is separate. Owner's Manual 13 Installation Monitor Display Specifications (RGB-PC / DVI-PC Mode)

Resolution 640x350 720x400 Vertical Horizontal Frequency(KHz) Frequency(Hz) 31.468 70.09 37.861 31.469 37.

927 31.469 35.000 640x480 37.861 37.500 43.269 35.156 800x600 37.879 46.875 53.674 832x624 848x480 49.

725 31.500 35.000 37.500 85.08 70.

08 85.03 59.94 66.66 72.80 75.

00 85.00 56.25 60.31 75.00 85.06 74.55 60.00 70.00 75.00 1280x960 1280x1024 1360x768 1366x768 1152x864 1024x768 Resolution Horizontal Vertical Frequency(KHz) Frequency(Hz) 31.

500 852x480 35.000 37.500 48.363 56.476 60.023 54.348 63.995 67.500 60.000 63.

981 47.700 59.625 47.700 59.625 60.

00 70.00 75.00 60.00 70.06 75.

02 60.05 70.01 75.00 60.00 60.02 60.00 75.02 60.00 75.02 14 Plasma Display Operation Operation Turning on the Monitor Turning on the Monitor just after installation 1.

Connect power cord correctly. 2. Press the ON/OFF button on the Monitor. At this moment, the Monitor is switched to standby mode. Press the INPUT SELECT button on the Monitor or press the POWER, INPUT SELECT button on the remote control and then the Monitor will switch on.



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Turning on the Monitor (power cord is still connected) 1. If the Monitor was turned off with the ON/OFF button on the Monitor ON/OFF button on the Monitor to turn the Monitor on. ON/OFF button on the Monitor 2. If the Monitor was turned off with the remote control and then the ON/OFF button on the Monitor and then press the INPUT SELECT button on the Monitor or press the POWER, INPUT SELECT button on the remote control to turn the Monitor on. Menu Language Selection - The menus can be shown on the screen in the selected language.

First select your language. 1. Press the MENU button and then use 2. Press the G button and then use D / E D / E button to select the SPECIAL menu. button to select Language.

3. Press the G button and then use D / E button to select your desired language. From this point on, the on-screen menus will be shown in the language of your choice. 4. Press the OK button to save.

Owner's Manual 15 Operation Video Menu Options - Picture menu adjustment are unique to each input source. Readjust Video menu settings for each following input source as preferred. · RGB (PC) / DVI (PC), · RGB (DTV) / DVI (DTV) / Component (480p, 720p, 1080i) · Video / S-Video / Component (480i) APC (Auto Picture Control) - APC adjusts the Monitor for the best picture appearance. - When adjusting Video menu options (contrast, brightness, color, sharpness, and tint) manually, APC automatically changes the setting to User. 1. Press the APC button repeatedly to select the picture appearance setup option as shown below. Clear Optimum Soft User · You can also select Clear, Optimum, Soft, or User in the VIDEO menu. · Clear, Optimum, and Soft settings are preset for optimum picture quality at the factory and cannot be changed. Manual Picture Control (User option) (- You can adjust picture contrast, brightness, color, sharpness, and tint to the levels you prefer. - PIP settings are not adjustable.

1. Press the MENU button and then use D / E button to select the VIDEO menu. VIDEO AUDIO 2. Press the G button and then use D / E button to select the desired picture option (Contrast, Brightness, Color, Sharpness, or Tint). 3. Press the G button and then use 4. Press the OK button to save. F / G APC ACC Color temp. Contrast Brightness Color Sharpness Tint 85 60 50 50 0 0 G TIME SPECIAL button to make appropriate adjustments. SCREEN TWIN MENU Prev.

Auto Color Temperature Control - To initialize values (reset to default settings), select the Normal option. - When adjusting color temperature options (red, green, and blue) manually, ACC automatically changes the setting to User. 1. Press the MENU button and then use 2. Press the G D / E button to select the VIDEO menu.

VIDEO AUDIO APC ACC Color temp. Contrast Brightness Color Sharpness Tint G button and then use D / E button to select ACC . TIME SPECIAL SCREEN TWIN 3. Press the G button and then use D / E button to select either Normal (Default), Cool (Preset), Warm (Preset), or User (Manual Adjustment). 4.

Press the OK button to save. 85 60 50 50 0 Normal Cool Warm User MENU Prev. Manual Color Temperature Control (User option) (- You can adjust red, green, and blue to any color temperature you prefer. 1. Press the MENU button and then use 2. Press the G button and then use 3. Press the 4. Use the G F / G D / E button to select the VIDEO menu. VIDEO AUDIO TIME SPECIAL SCREEN TWIN D / E / E button to select the Color temp. option.

button to select Red, Green, or Blue. APC ACC Color temp. Contrast Brightness Color Sharpness Tint G Red Green Blue 0 0 0 button and then use D button to make appropriate adjustments. 85 60 50 50 0 · The adjustment range for Red, Green, and Blue is -20 ~ +20. 5. Press the OK button to save. MENU Prev.

16 Plasma Display Operation Audio Menu Options DASP (Digital Auto Sound Processing) - DASP lets you enjoy the best sound without any special adjustment because the Monitor selects the appropriate sound options based on the program content. - When adjusting sound options (treble, and bass) manually, DASP automatically changes to User. 1.

@@@ Press the MENU button and then use D 2. Press the G button and then use (Balance, Treble, or Bass). 3. Press the G / E button to select the AUDIO menu. @@@@ 1.

Press the MENU button and then use 2. Press the 3. @@ button to select On or Off. On Off SPECIAL SCREEN TWIN 4. @@@ 1.

Press the MENU button and then use 2. Press the 3. Press the 4. @@ button to set the hour. button to set the minutes. 5. @@@@ 1. Press the MENU button and then use 2. @@@@ Press the G button and then use D / E button to select On. · To cancel On/Off timer function, select Off.

4. Press the 5. @@ button to set the minutes. G MENU Prev. 6. For On timer function only, press the the volume level at turn on. 7. @@@ 1. Press the MENU button and then use 2. Press the G button and then use 3.

Press the G button and then use 4. @@@@ Note that this setting is cleared when the monitor is turned off. 1. Press the SLEEP button repeatedly to select the number of minutes. @@ 2.

@@ The timer begins to count down from the number of minutes selected. 3. @@@@ 1. Press the MENU button and then use 2.

@@@@ 4. @@@@ Press the MENU button and then use 2. @@ button to select either Normal, White wash, 3. @@@@ To return to normal viewing, press any button. · Orbiter Orbiter may help prevent ghost images. @@@@ 4. @@@ 1. Press the MENU button and then use 2. Press the 3. @@ button to select On or Off.

· When you select On, the screen darkens. 4. Press the OK button to save. MENU Prev. Menu Rotation for Vertical Viewing Vertical Viewing 1. Press the MENU button and then use the 2. Press the G D / E button to select the SPECIAL menu. VIDEO AUDIO TIME SPECIAL SCREEN TWIN Language Key lock ISM Method Low power Set ID OSD Rotate G button and then use the D / E button to select OSD Rotate. 3. Press the G button and then use the D / E button to select Normal or Rotate.

· Select Normal, if the monitor was installed horizontally. · Select Rotate, if the monitor was installed vertically. 4. Press the OK button to save. Normal Rotate MENU Prev.

Owner's Manual 19 Operation Screen Menu Options Auto Adjustment RGB (PC) mode only; This function doesn't work for RGB-DTV mode. Automatically adjusts picture position and minimizes image shaking. After adjustment, if the image is still not correct, your Monitor is functioning properly but needs further adjustment. Auto config. and Manual config.

are not available for DVI mode. D / E 1. Press the MENU button and then use 2. Press the G button to select the SCREEN menu. VIDEO AUDIO TIME SPECIAL SCREEN TWIN Auto config. ARC Zoom in/out Position Manual config. Screen adj. Reset XGA Mode G To set button and then use D / E button to select Auto config.. 3.

Press the G button to run Auto configure.

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· When Auto config. has finished, OK will appear on the screen. · If the position of the image is still not correct, try Auto adjustment again. 4. In RGB (PC) mode, if the image needs to be adjusted more after using Auto config., you can make further adjustments with the Manual config. option. MENU Prev. Setting Picture Format - Caution: If a 4:3 fixed image is shown with gray bars at the sides of the screen for a long time, the gray images may remain visible.

- All aspect ratio for RGB 480p, DVI 480p, Component 480i/480p, Video, and S-Video sources are shown below. - Use 4:3, or 16:9 for other input sources. 1. Press the ARC button repeatedly to select the desired picture format. You can also adjust ARC in the SCREEN menu.

· 4:3 - Choose 4:3 when you want to view a picture with an original 4:3 aspect ratio, with gray bars appearing at both the left and right sides to fill the screen. · 16:9 - Choose 16:9 when you want to adjust the picture horizontally, in a linear proportion to fill the entire screen. · Horizon - Choose Horizon when you want to adjust the picture in a non-linear proportion, that is, more enlarged at both sides, to create a spectacular view. · Zoom - Choose Zoom when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.

Picture Size Zoom - If enlarging or reducing the picture, the image may become distorted. 1. Use ZOOM+/ZOOM- button to enlarge or reduce the picture size. · Zoom adjustment range is 100~300. 2. Adjust the main picture position using the D/E/F/G buttons while in enlarged picture mode. Zoom out 100% D/E/F/G 20 Plasma Display Operation Split Zoom Enlarges the picture in correct proportions. Split Zoom can be used for all input sources. In 2-Split Zoom mode, you can only move the image up or down. If a screen is enlarged, a screen can move without selecting section of screen Split Zoom.

It's not available to use this function if OSD Rotate is set to the Rotate option. 1. Press the SPLIT ZOOM button repeatedly to select either 2, 4, or 9 Split Zoom. 2-Split zoom 1 4 ;ã ;â ¢, ¢° 4-Split zoom 1 4 2 5 9-Split zoom 1 4 7 2 5 8 3 6 9 2. Press the number button corresponding to the section you wish to enlarge. You can move within the enlarged image with the D/E/F/G button. @@1. Press the MENU button and then use 2. Press the 3. @@ARC Zoom in/out Position Manual config.

Screen adj. @@button to adjust the position. D/E/F/G 4. @@- To correct the screen size, adjust Clock. 1.

Press the MENU button and then use 2. Press the G button and then use 3. Press the G button and then use 4. @@ARC Zoom in/out Position Manual config. Screen adj.

Reset XGA Mode G button to select Manual config.. @@· The Clock adjustment range is -50 ~ +50. 5. @@1. Press the MENU button and then use 2. Press the G button and then use 3. @@ARC Zoom in/out Position Manual config. Screen adj. Reset YNR MENU Prev.

G button to select Screen adj.. @@· Select the TV option for other equipment.(Except VCR) 4. @@- To initialize the adjusted value, follow instructions below.

1. Press the MENU button and then use 2. Press the G button and then use 3. Press the G button. @@ARC Zoom in/out Position Manual config.

Screen adj. Reset XGA Mode MENU Prev. G button to select Reset. To set Selecting Wide VGA/XGA mode (RGB-PC, DVI-PC mode only) Wide - To see a normal picture, match the resolution of RGB XGA mode (1024x768, 1360x768, 1366x768) with the selection for XGA mode and the resolution of RGB VGA mode (640x480, 848x480, 852x480) with the selection for VGA mode in the SCREEN menu. - If the input source is RGB VGA mode, the screen menu option is changed from XGA mode to VGA mode automatically.

1. Press the MENU button and then use 2. Press the G button and then use 4. Press the OK button to save. D/E D/E button to select the SCREEN menu. VIDEO AUDIO TIME SPECIAL SCREEN TWIN Auto config. ARC Zoom in/out Position Manual config. Screen adj. Reset XGA Mode MENU Prev. G button to select VGA mode/XGA mode. 3. Press the G button and then use D/E button to select the desired VGA/XGA resolution. 1024x768 1360x768 1366x768 Luminance Noise Reduction (Video, S-Video and Component 480i modes only) (Video, S-Video - Use YNR to reduce the picture noise which may appear on the screen. 1. Press the MENU button and then use 2.

Press the G D/E button to select the SCREEN menu. VIDEO AUDIO TIME SPECIAL SCREEN TWIN button and then use D/E button to select YNR. button to select On or Off. 3. Press the G button and then use 4. Press the OK button to save. D/E Auto config. ARC Zoom in/out Position Manual config. Screen adj. Reset YNR MENU Prev.

G On Off 22 Plasma Display Operation PIP (Picture-In-Picture) Feature - PIP lets you view 2 different inputs (sources) on your monitor screen at the same time. One source will be large, and the other source will show a smaller inset image. Watching PIP Press the PIP button repeatedly to turn PIP on or off.

Component Video PIP Size Press the WIN.SIZE button and then use change the sub picture size.

F/G button to 10 : 30 Win.size F G PIP Aspect Ratio Press the PIP ARC button. The sub picture appears as shown. Swapping PIP Press the SWAP button to switch the main and sub pictures. Component Video 10 : 30 Video Component 10 : 30 4: 3 16 : 9 Main Picture Sub Picture Moving PIP Press the WIN.

POSITION button. Press the D/E/F/G button repeatedly until desired position is achieved. The sub picture moves up/down/left/right. Win.position Selecting an Input Signal Source for the PIP Use the SUB INPUT button to select the input source for the sub picture. Main Picture Source Video S-Video Component 480i Component 480p/720p/1080i RGB and DVI Available Sub Picture Sources S-Video, Component 480i/480p/720p/1080i, RGB, and DVI Video, Component 480i/480p/720p/1080i, RGB, and DVI Video, S-Video, RGB, and DVI Video and S-Video Component 480i, Video, and S-Video Owner's Manual 23 Operation Twin Picture Setup Option - As the name suggests, this mode splits the screen into 2, allowing 2 picture sources to be shown on the monitor screen at the same time. Each source is given half the screen. Watching Twin Picture Press the TWIN PICTURE button repeatedly to select one of the Twin Picture options. DW 1 DW 2 Sub Picture Size Adjustment Press the WIN.SIZE button.

· Use the F/G button to change the sub picture size. · Using the WIN.SIZE function in Twin Picture mode, main and sub picture sizes are changed simultaneously. Using the WIN.SIZE function in PIP mode, sub picture size is changed. · WIN.POSITION is not functional in Twin Picture mode. Win.size F G Swapping the Twin Picture Use the SWAP button to switch the main and sub pictures in twin picture mode. Component Video 10 : 30 Video Component 10 : 30 Main Picture Sub Picture Selecting a Source for the Twin Picture Use the SUB INPUT button to select the input source for the sub picture.



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External Control Device Setup 08. Brightness (Command2:h) G To adjust screen brightness. You can also adjust brightness in the Video menu. Transmission [k][h][][Set ID][][Data][Cr] Data Min : 0 ~ Max : 64 · Refer to 'Real Data Mapping 1'. See page 27. Acknowledgement [h][][Set ID][][OK][Data][x]

13. Remote Control Lock Mode (Command2:m) G To lock the remote control and front panel controls on the monitor Transmission [k][m][][Set ID][][Data][Cr] Data 0: Lock off Acknowledgement [m][][Set ID][][OK][Data][x] 1: Lock on · If you're not using the remote control and front panel controls on the monitor, use this mode.

When main power is turned on/off, remote control lock is released. 09. Color (Command2:i) G To adjust the screen color. You can also adjust color in the Video menu. Transmission [k][i][][Set ID][][Data][Cr] Data Min : 0 ~ Max : 64 · Refer to 'Real Data Mapping 1'. See page 27. Acknowledgement [i][][Set ID][][OK][Data][x]

14. PIP / Twin (Command2:n) G To control the PIP (Picture-in-Picture) or Twin Picture. You can also control the PIP/TWIN using the PIP or Twin PICTURE button on the remote control or in the Special menu. Transmission [k][n][][Set ID][][Data][Cr] Data 0: PIP/DW off 1: PIP Acknowledgement 2: DW1 3: DW2 10.

Tint (Command2:j) G To adjust the screen tint. You can also adjust tint in the Video menu. Transmission [k][j][][Set ID][][Data][Cr] Data Red : 0 ~ Green : 64 · Refer to 'Real Data Mapping 1'. See page 27. Acknowledgement [j][][Set ID][][OK][Data][x] [n][][Set ID][][OK][Data][x]

15. PIP Aspect Ratio (Command2:o) G To select the PIP picture format. You can also select the PIP picture format using PIP ARC on the remote control. Transmission [k][o][][Set ID][][Data][Cr] Data 0: 4:3 Acknowledgement [o][][Set ID][][OK][Data][x] 1: 16:9 11. Sharpness (Command2:k) G To adjust the screen sharpness. You can also adjust sharpness in the Video menu.

Transmission [k][k][][Set ID][][Data][Cr] Data Min: 0 ~ Max: 64 · Refer to 'Real Data Mapping 1'. See page 27. Acknowledgement [k][][Set ID][][OK][Data][x]

16. Split Zoom (Command2:p) G To operate split zoom function and select the split zoom section number. Transmission [k][p][][Set ID][][Data][Cr] Data Min: 0 ~ Max: 99 · Refer to 'Real Data Mapping 2' below. Acknowledgement [p][][Set ID][][OK][Data][x] * Real Data Mapping 2 0: 21: 24: 41: 42: 44: 45: 91: Reset split zoom Selection 1 of 2 split Selection 4 of 2 split Selection 1 of 4 split Selection 2 of 4 split Selection 4 of 4 split Selection 5 of 4 split Selection 1 of 9 split zoom zoom zoom zoom zoom zoom zoom 12. OSD Select (Command2:l) G To select OSD (On Screen Display) on/off. Transmission [k][l][][Set ID][][Data][Cr] Data 0: OSD off Acknowledgement [l][][Set ID][][OK][Data][x] 1: OSD on 99: Selection 9 of 9 split zoom 28 Plasma Display External Control Device Setup 17. PIP Position (Command2:q) G To select sub picture position for PIP. You can also adjust the sub picture position using Win.

position on the remote control or in the Special menu. Transmission [k][q][][Set ID][][Data][Cr] Data 0: 1: 2: 3: Right down on screen Left down on screen Left up on screen Right up on screen 21. Color Temperature (Command2:u) G To adjust color temperature. You can also adjust ACC in the Video menu. Transmission [k][u][][Set ID][][Data][Cr] Data 0: Normal Acknowledgement [u][][Set ID][][OK][Data][x] 1: Cool 2: Warm 3: User Acknowledgement [q][][Set ID][][OK][Data][x] 22.

Red Adjustment (Command2:v) G To adjust red in color temperature. Transmission 18. Treble (Command2:r) G To adjust treble. You can also adjust treble in the Audio menu. Transmission [k][r][][Set ID][][Data][Cr] Data Min: 0 ~ Max: 64 · Refer to 'Real Data Mapping 1'. See page 27. Acknowledgement [r][][Set ID][][OK][Data][x] [k][v][][Set ID][][Data][Cr] Data Min: 0 ~ Max: C8 · Refer to 'Real Data Mapping 3' as shown below. Acknowledgement [v][][Set ID][][OK][Data][x]

23. Green Adjustment (Command2:w) G To adjust green in color temperature. Transmission [k][w][][Set ID][][Data][Cr] 19. Bass (Command2:s) G To adjust bass. You can also adjust bass in the Audio menu. Transmission [k][s][][Set ID][][Data][Cr] Data Min: 0 ~ Max: 64 · Refer to 'Real Data Mapping 1'. See page 27. Acknowledgement [s][][Set ID][][OK][Data][x] Data Min: 0 ~ Max: C8 · Refer to 'Real Data Mapping 3' as shown below.

Acknowledgement [w][][Set ID][][OK][Data][x]

24. Blue Adjustment (Command2:\$) G To adjust blue in color temperature. Transmission [k][\$][][Set ID][][Data][Cr] Data Min: 0 ~ Max: C8 · Refer to 'Real data mapping 3' as shown below. Acknowledgement [\$][][Set ID][][OK][Data][x] * Real Data Mapping 3 0 : -20 5 : -19 A : -18 5F: -1 64: 0 69: +1 C3: +19 C8: +20 20. Balance (Command2:t) G To adjust balance. You can also adjust balance in the Audio menu. Transmission [k][t][][Set ID][][Data][Cr] Data Min: 0 ~ Max: 64 · Refer to 'Real Data Mapping 1'. See page 27. Acknowledgement [t][][Set ID][][OK][Data][x]

Owner's Manual 29 External Control Device Setup 25. PIP Input Select (Command2:y) G To select input source for sub picture in PIP mode.

Transmission [k][y][][Set ID][][Data][Cr] Data 0: RGB 2: Video Acknowledgement [y][][Set ID][][OK][Data][x] 1: Component 3: S-video 4: DVI 29. Orbiter Time Setting (Command2:r) G To adjust orbiter operation time term. Transmission [j][r][][Set ID][][Data][Cr] Data Min: 1 ~ Max: FE Acknowledgement [r][][Set ID][][OK][Data][x]

26. Abnormal State (Command2:z) G To recognize an abnormal state. Transmission [k][z][][Set ID][][FF][Cr] Data FF:Read Acknowledgement [z][][Set ID][][OK][Data][x] Data 0: Normal (Power on and signal exist) 1: No signal (Power on). 2: Turn the monitor off with remote control. 3: Turn the monitor off with Sleep Time function. 4: Turn the monitor off with RS-232C function. 5: 5V down. 6: AC down.

7: Turn the monitor off with Fan Alarm function. 8: Turn the monitor off with Off Time function. 9: Turn the monitor off with Auto Off function. a: Turn the monitor off with AV board detect. 30. Orbiter Pixel Setting (Command2:s) G To adjust pixel number in orbiter function. Transmission [j][s][][Set ID][][Data][Cr] Data Min: 0 ~ Max: 9 Acknowledgement [s][][Set ID][][OK][Data][x]

31. Picture Size Setting for Twin Picture mode (Command2:t) G To adjust main picture size in twin picture mode. Transmission [j][t][][Set ID][][Data][Cr] Data Min: 0 ~ Max: 64 · Refer to 'Real Data Mapping 1'. See page 27.

Acknowledgement [t][][Set ID][][OK][Data][x]

27. ISM Method (Command2:p) G To avoid having a fixed image remain on screen. Transmission [j][p][][Set ID][][Data][Cr] Data 0: Normal 1: White wash Acknowledgement [p][][Set ID][][OK][Data][x] 2: Orbiter 3: Inversion 32. Auto Configure (Command2:u) G To adjust picture position and minimize image shaking automatically.



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q If a replacement unit is required, under some circumstances you may be asked to provide a reserve deposit to Zenith against a credit card number as surety for advanced shipment. Your credit card will not be charged if you return the defective unit within 10 working days. q If a replacement unit is received, please use the carton and packaging from that unit in returning the defective unit to Zenith. q Parts and service in accordance with the Zenith warranty are Zenith's responsibility and will be provided without charge. Other service requirements will be at the owner's expense. If you have problems in obtaining satisfactory warranty service, write or call the Zenith Customer Interactive Center. Service may be provided by independently owned and operated service organizations. q To assure proper credit and avoid unnecessary charges, you must obtain a Return Authorization before returning any product for Zenith Warranty Service. Contact the number below or your authorized Zenith repair facility for details. IMPORTANT: Please fill out and mail your Product Registration Card or go to www.zenithservice.com

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