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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH Z50PX2D. You'll find the answers to all your questions on the ZENITH Z50PX2D in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZENITH Z50PX2D
User guide ZENITH Z50PX2D
Operating instructions ZENITH Z50PX2D
Instructions for use ZENITH Z50PX2D
Instruction manual ZENITH Z50PX2D

Installation and Operating Guide | Warranty
Model Numbers | Z42PX1D / Z50PX2D | PLASMA TV

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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. @@@@@@@@This information shall be given in a language acceptable to the country where the apparatus is intended to be used. The important safety instructions shall be entitled "Important Safety Instructions". The following safety instructions shall be included where applicable, and, when used, shall be verbatim as follows. Additional safety information may be included by adding statements after the end of the following safety instruction list.

At the manufacturer's option, a picture or drawing that illustrates the intent of a specific safety instruction may be placed immediately adjacent to that safety instruction : 1. Read these instructions. 2. Keep these instructions. 3.

Heed all warnings. 4. Follow all instructions. 5. Do not use this apparatus near water.

6. Clean only with dry cloth. 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers)that produce heat. 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other.

A grounding type plug has two blades and a third grounding prong, The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. 11. Only use attachments/accessories specified by the manufacturer. 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. PORTABLE CART WARNING Operating Guide 3 Safety Instructions Safety Instructions 13.

Unplug this apparatus during lightning storms or when unused for long periods of time. 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has exposed to rain or moisture, does not operate normally, or has been dropped. 15.

CAUTION concerning the Power Cord : Most appliances recommend they be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire.

Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance. 16. Outdoor Use Marking : WARNING - To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Appliance To Rain Or Moisture. 17. Wet Location Marking : Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus. 4 Plasma TV Contents Contents Warning/Caution . . .

Setup and Operation Checklist (See pages 13~21 for available connection and operational setup options.) 1. Unpack TV and all accessories. 2. Connect all external video and audio equipment. see pages 13~18.
3 Install batteries in remote control. See page 9. 4. Turn TV on. See page 22.
5. Turn video source equipment on. 6. Select viewing source for TV. See pages 25. 7. Fine-tune source image and sound to your personal preference or as required by source. See pages 26~ 29. 8. Additional features set up See Contents above.

After reading this manual, keep it handy for future reference. Operating Guide 5 Introduction Introduction What is a Plasma Display Panel (PDP)? A plasma display panel is the latest display technology and the best way to achieve flat panel displays with excellent image quality and large screen sizes that are easily viewable. The PDP can be thought of as a descendant of the neon lamp and it can be also be viewed as a series of fluorescent lamps. How does it work? PDP is an array of cells, known as pixels, which are comprised of 3 sub pixels, corresponding to the colors red, green, and blue. Gas in a plasma state is used to react with phosphors in each sub-pixel to produce colored light (red, green, or blue). These phosphors are the same types used in Cathode Ray Tube (CRT) devices such as televisions and common computer monitors. You get the rich, dynamic colors that you expect. Each sub-pixel is individually controlled by advanced electronics to produce over 16 million different colors. All of these mean that you get perfec or STB. Select a mode other than TV, for the remote to operate an external device.
TV/VIDEO External input modes rotate in regular sequence: Antenna, Cable, Video, Front Video, Component 1-2, RGB-DTV (or RGB-PC) and HDMI/DVI input sources. (Video, Front Video, Component 1-2 input sources are linked automatically, only if these are connected) DAY GUIDE DAY + MENU Brings up the main menu to the screen. RATIO Changes the aspect ratio. EXIT TIMER CC EXIT Clears all on-screen displays and returns to TV viewing from any menu. TIMER Lets you select the amount of time before your TV turns itself off automatically.
INFO When you watch the TV, information displays on top of the screen. Not available in Component 1-2, RGB and HDMI/DVI mode. (Refer to p.39) FAV Scrolls the Favorite channels. MUTE Switches the sound on or off.
(Refer to p.40) FLASHBK FREEZE FLASHBK Tunes to the recent channels. EZ PIC Selects a factory preset picture mode depending on the viewing environment. FREEZE Freezes the currently-viewed picture. Main picture is frozen. Installing Batteries · Open the battery compartment cover on the back side and install the batteries matching corre2. Analog and Digital TV signals provided on cable Cable TV Wall Jack Bronze Wire RF Coaxial Wire (75 ohm) ANTENNA CABLE Bronze Wire Operating Guide 13 Installation 3. Analog and Digital TV signals provided on cable and antenna Antenna Bronze Wire RF Coaxial Wire (75 ohm) Cable TV Wall Jack Turn clockwise to tighten. ANTENNA RF Coaxial Wire (75 ohm) CABLE Bronze Wire · To improve the picture

quality in a poor signal area, please purchase a signal amplifier and install properly. ANTENNA · If the antenna needs to be split for two TV's, install a "2Way Signal Splitter" in the connections.

· If the antenna is not installed properly, contact your dealer for assistance. Signal Amplifier VCR Setup - To avoid picture noise (interference), leave an adequate distance between the VCR and TV - Use the ISM Method (on the Option menu) feature to avoid having a fixed image remain on the screen for a long period of time. If the 4:3 picture format is used; the fixed images on the sides of the screen may remain visible on the screen. Connection Option 1 Set VCR output switch to channel 3 or 4 and then tune the TV to the same channel number. MONITOR OUTPUT COMPONENT INPUT 2 Connection Option 2 1. Connect the audio and video cables from the VCR's output jacks to the TV input jacks, as shown in the figure. When connecting the TV to VCR, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red). If you connect an S-VIDEO output from VCR to the S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input. 2. Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.) 3. Select the input source with using the TV/VIDEO button on the remote control. Note that this TV finds the connected input sources automatically for Video, Front Video and Component 1-2. It is presumed that RGB and HDMI/DVI sources are connected. Do not connect to both Video and S-Video at the same time. (MONO) DVD /DTV INPUT A/V INPUT S-VIDEO COMPONENT INPUT 1 L R S-VIDEO L R VIDEO AUDIO VIDEO AUDIO ANTENNA RGB/DVI AUDIO INPUT REM CON CABLE 1 ANT OUT ANT IN S-VIDEO OUTPUT SWITCH 3 4 OUT (R) AUDIO (L) IN VIDEO 2 VCR Rear 14 Plasma TV Installation External A/V Source Setup How to connect Connect the audio and video cables from the external equipment's output jacks to the TV input jacks, as shown in the figure. When connecting the TV to external equipment, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red). MONITOR OUTPUT COMPONENT INPUT 2 DVD /DTV INPUT (MONO) A/V INPUT COMPONENT INPUT 1 L R L R VIDEO AUDIO S-VIDEO VIDEO AUDIO How to use 1. Select the input source with using the TV/VIDEO button on the remote control. Note that this TV finds the connected input sources automatically for Video, Front Video and Component 1-2. It is presumed that RGB and HDMI/DVI sources are connected. 2. Operate the corresponding external equipment. Camcorder R AUDIO L VIDEO DVD Setup MONITOR OUTPUT COMPONENT INPUT 2 Video Game Device DVD /DTV INPUT (MONO) A/V INPUT COMPONENT INPUT 1 L R L R VIDEO AUDIO S-VIDEO VIDEO AUDIO or DVD S-VIDEO (R) AUDIO (L) DIGITAL AUDIO OPTICAL (R) AUDIO (L) B R How to connect 1. Connect the DVD video outputs (Y, PB, PR) to the COMPONENT (Y, PB, PR) INPUT jacks on the TV and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV, 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 TV and connect the DVD audio outputs to the AUDIO INPUT jacks on the TV, as shown in the figure.

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Note: If your DVD player does not have component video output, use S-Video. How to use 1.

Turn on the DVD player, insert a DVD. 2. Use the TV/VIDEO button on the remote control to select Component 1 or Component 2. (If connected to S-VIDEO, select the Video or Front 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 on the TV Y Y Y Y Y PB PR Video output ports on DVD player Pr Pb B-Y R-Y Cb Cr PB PR Operating Guide 15 Installation HDSTB Setup - This TV can receive Digital Over-the-air/Cable signals without an external digital set-top box. However, if you do receive Digital signals from a digital set-top box or other digital external device, refer to the figure as shown below. - This TV supports HDCP (High-bandwidth Digital Contents Protection) protocol for Digital Contents (480p,720p,1080i).

COMPONENT INPUT 2 HDMI /DVI (VIDEO) INPUT DIGITAL AUDIO OPTICAL OUTPUT RS-232C INPUT (CONTROL/SERVICE) RGB/DVI AUDIO INPUT REMOTE CONTROL DVD /DTV INPUT RGB / DVI AUDIO INPUT REMOTE CONTROL COMPONENT INPUT 1 L R VIDEO AUDIO RGB INPUT AC INPUT RGB INPUT AC INPUT or (R) AUDIO (L) DIGITAL AUDIO OPTICAL DVI-DTV OUTPUT HDMI-DTV OUTPUT DIGITAL AUDIO OPTICAL (R) AUDIO (L) B R RGB-DTV OUTPUT (R) AUDIO (L) or Digital Set-top Box How to connect Use the TV's COMPONENT (Y, PB, PR) INPUT, RGB or HDMI/DVI jack for video connections, depending on your set-top box connector. Then, make the corresponding audio connections. Signal 480i 480p 720p 1080i Component 1/2 Yes Yes Yes Yes RGB-DTV , HDMI/DVI No Yes Yes Yes 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 TV/VIDEO on the remote control to select Component 1, Component 2, RGB-DTV, or HDMI/DVI source. 16 Plasma TV Installation PC Setup - This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings. - The TV perceives 640x480, 60Hz as DTV 480p based on the PC graphic card, change the screen scanning rate for the graphic card accordingly. <When the PC supports DVI> How to connect 1. Connect the PC to HDMI/DVI port of this TV with an HDMI-to-DVI cable(not supplied with this product). 2. If the PC(or the sound card of the PC) has an analog audio output connector, connect the PC's audio output to RGB/DVI AUDIO INPUT port located on the upper side of RGB INPUT port. How To Use 1. To get the best picture quality, adjust the PC graphics card to 1024x768, 60Hz. 2. Select HDMI/DVI input source in input source option of SETUP menu.(Refer to P.25) TV/VIDEO button is also available for this purpose. 3.

Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the VIDEO 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. <When the PC supports RGB> How to connect 1. Connect the PC to RGB INPUT port of this TV with a RGB cable(not supplied with this product). 2. If the PC(or the sound card of the PC) has an analog audio output connector, connect the PC's audio output to RGB/DVI AUDIO INPUT port located on the upper side of RGB INPUT port. How To Use 1. To get the best picture quality, adjust the PC graphics card to 1024x768, 60 Hz.

2. Select RGB-PC input source in input source option of SETUP menu.(Refer to P.25) Once you select RGB-PC in main input option of SETUP menu, TV/VIDEO button is also available for this purpose. 3.

Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the VIDEO 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. Monitor Display Specifications (RGB-PC) Resolution 640x350 Horizontal Vertical Frequency(KHz) Frequency(Hz) 31.

469 31.469 640x480 37.861 37.500 720x400 31.469 70.08 59.94 72.80 75.00 70.08 1024x768 800x600 Resolution Horizontal Vertical Frequency(KHz) Frequency(Hz) 35.

156 56.25 37.879 48.077 46.875 48.363 56.476 60.023 60.31 72.18 75.

00 60.00 70.06 75.02 Operating Guide 17 Installation Monitor Display Specifications (HDMI/DVI Mode) Resolution Horizontal Vertical Frequency(KHz) Frequency(Hz) 31.469 640x480 37.

861 37.500 35.156 800x600 37.879 48.077 46.

875 59.94 72.80 75.00 56.25 60.31 72.18 75.00 1024x768 Resolution Horizontal Vertical Frequency(KHz) Frequency(Hz) 48.363 56.476 60.

023 60.00 70.06 75.02 Monitor Out Setup The TV has a special signal output capability which allows you to hook up a second TV or monitor. MONITOR OUTPUT COMPONENT INPUT 2 DVD /DTV INPUT (MONO) A/V INPUT COMPONENT INPUT 1 Connect the second TV or monitor to the TV's MONITOR OUTPUT. See the Operating Manual of the second TV or monitor for further details regarding that device's input settings. R L R L VIDEO AUDIO S-VIDEO VIDEO AUDIO Notes: · Component, RGB-PC/RGB-DTV, HDMI/DVI, DTV input sources cannot be used for Monitor out. · When connecting with external audio equipments, such as amplifers or speakers, please turn the TV speakers off.(Refer to p.28) · We recommend to use the video and audio output jacks for VCR recording.

S-VIDEO IN VIDEO (L) AUDIO (R) Second TV or monitor Digital Audio Output Send the TV's audio to external audio equipment (stereo system) via the Digital Audio Output (Optical) port. How to connect 1. Connect one end of an optical cable to the TV Digital Audio (Optical) Output port. 2. Connect the other end of the optical cable to the digital audio (optical) input on the audio equipment.

See the external audio equipment instruction manual for operation. Note: When connecting with external audio equipments, such as amplifers or speakers, please turn the TV speakers off.(Refer to p.28) Caution: Do not look into the optical output port. Looking at the laser beam may damage your vision. HDMI /DVI (VIDEO) INPUT DIGITAL AUDIO OPTICAL OUTPUT RS-232C INPUT (CONTROL/SERVICE) External Audio Equipment 18 Plasma TV Installation HDMI - HDMITM, the HDMI logo and High-Definition Multimedia Interface is a trademark or registered trademark of HDMI Licensing." - This TV can receive the High-Definition Multimedia Interface(HDMI) or the Digital Visual Interface(DVI). - This TV supports HDCP(High-bandwidth Digital Contents Protection) Protocol for 720x480p, 1280x720p, and 1920x1080i resolution.

- When you connect this TV with a source device(DVD player, Set Top Box or PC) supporting Auto HDMI/DVI function, the output resolution of the source device will be automatically set to 1280x720p. - If the source device does not support Auto HDMI/DVI, you need to set the output resolution appropriately. To get the best picture quality, adjust the DVD Player or Set Top Box's output resolution to 1280x720p, and the PC graphics card's output resolution to 1024x768, 60Hz. - If the source device has an HDMI output, no other audio connection is necessary because HDMI-to-HDMI connection includes both video and audio. - If the source device has a DVI output and no HDMI output, a separated audio connection is necessary. <When the source device(DVD player or Set Top Box) supports HDMI> How To Connect 1. Connect the source device to HDMI/DVI port of this TV with an HDMI cable(not supplied with this product).

2. No separated audio connection is necessary. How To Use - If the source device supports Auto HDMI function, the output resolution of the source device will be automatically set to 1280x720p. - If the source device does not support Auto HDMI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the source device to 1280x720p. - Select HDMI/DVI input source in input source option of SETUP menu.(Refer to P.25) TV/VIDEO button is also available for this purpose. <When the source device(DVD player or Set Top Box) supports DVI> How To Connect 1. Connect the source device to HDMI/DVI port of this TV with a HDMI-to-DVI cable(not supplied with this product).

2. A separated audio connection is necessary. 3. If the source device has an analog audio output connector, connect the PC's audio output to RGB/DVI AUDIO INPUT port located on the upper side of RGB INPUT port. How To Use - If the source device supports Auto DVI function, the output resolution of the source device will be automatically set to 1280x720p.

- If the source device does not support Auto DVI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the source device to 1280x720p. - Select HDMI/DVI input source in input source option of SETUP menu.(Refer to P.25) TV/VIDEO button is also available for this purpose.

Operating Guide 19 Installation Reference Cable sample HDMI Cable (not supplied with the product) HDMI to DVI Cable (not supplied with the product) Fiber Optic Digital Audio Cable (not supplied with the product) Analog Audio Cable(RCA type) (not supplied with the product) Analog Audio Cable(Stereo to RCA type) (not supplied with the product) 20 Plasma TV Installation How to use 1. Connect the HDMI/DVI Source Devices(DVD Player or Set Top Box or PC) and the TV SET. 2. Turn on the display by pressing the POWER button on the TV SET and HDMI/DVI Source Devices remote control. 3. Select HDMI/DVI Input source in input source option of SETUP menu.(Refer to P.25) 4. Check the image on your TV SET. There may be noise associated with the resolution, vertical pattern, contrast or brightness in HDMI/DVI Source Devices.

If noise is present, change the HDMI/DVI Source Devices to another resolution, change the refresh rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphics card can not changed, change the PC graphics card or consult the manufacturer of the PC graphics card. Notes: - Depending on the graphics card, DOS mode may not work if you use a HDMI to DVI Cable. - Avoid keeping a fixed image on the TV SET screen for a long period of time. The fixed image may become permanently imprinted on the screen. Use the Orbiter screen saver when possible. - When Source Devices connected HDMI/DVI Input, output PC Resolution(VGA, SVGA, XGA), Position, Size may not fit to Screen. As shown the lower picture, press the ADJUST button to adjust the screen Position of TV SET and contact an PC graphics card service center. - When Source Devices connected HDMI/DVI Input output TV SET Resolution(480p, 720p, 1080i), TV SET Display fit EIA/CEA861-B Specification to Screen. If not, refer to the Manual of HDMI/DVI Source Devices or contact your service center.

- In case HDMI/DVI Source Devices is not connected Cable or poor cable connection, "NO SIGNAL" OSD display in HDMI/DVI Input. And In case of, Video Resolution not supported TV SET output in HDMI/DVI Source Devices, "INVALID FORMAT" OSD display. Refer to the Manual of HDMI/DVI Source Devices or contact your service center. POSITION SIZE G D F G E PHASE RESET Adjust Close PC mode In This Mode, the Supported TV SET Resolution Specification 1920 x 1080 I @ 59.94Hz / 60Hz, 16:9 1280 x 720 P @ 59.94Hz / 60Hz, 16:9(preferred format) 720 x 480 P @ 59.94Hz / 60Hz, 16:9 720 x 480 P @ 59.94Hz / 60Hz, 4:3 In This Mode, the Supported PC Resolution Specification - 640 x 480 @ 60Hz 640 x 480 @ 72Hz 640 x 480 @ 75Hz 800 x 600 @ 56Hz 800 x 600 @ 60Hz 800 x 600 @ 72Hz 800 x 600 @ 75Hz 1024 x 768 @ 60Hz(preferred format) 1024 x 768 @ 70Hz 1024 x 768 @ 75Hz Operating Guide 21 Operation Operation Turning the TV On * In this manual, the OSD (On Screen Display) may be different from your TV's because it is just an example to help you with the TV operation. 1. First, connect power cord correctly.

At this moment, the TV switches to standby mode. In standby mode to turn TV on, press the , TV/VIDEO , CH (D / E) button on the TV or press the POWER, TV INPUT, TV/VIDEO, CH (D / E), Number (0 ~ 9) button on the remote control. 2. Select the viewing source by using TV/VIDEO button on the remote control. This TV is programmed to remember which power state it was last set to, even if the power cord is out. 3. When finished using the TV, press the POWER button on the remote control. The TV reverts to standby mode. TV Setup On-screen Menus 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 menu. 2. Press the G D / E button to select the OPTION button and then use D / E 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 selected language. 4. 22 Plasma TV Operation Setup Menu Options EZ Scan (Channel Search) - Automatically finds all available channels through antenna or cable inputs, and stores them in memory on the channel list. - Run EZ Scan again after any Antenna/Cable connection changes.

- A password is required to gain access to EZ Scan menu if the Lock System is turned on. 1. Press the MENU button and then use 2. Press the G button and then use D /E button to select the SETUP menu. D /E button to select EZ Scan.

3. Press the ENTER button to begin the channel search. Allow EZ Scan to complete the channel search cycle for ANTENNA, and CABLE.

*Manual Scan - A password is required to gain access to Manual Scan menu if the Lock System is turned on. 1.
Press the MENU button and then use 2. Press the G button and then use 3. Press the G button and then use CADTV. 4. Press the G button and then use want
to add or delete. D /E button to select the SETUP menu. D /E button to select Manual Scan. button to select TV, DTV, CATV, and button to select channel
number you D /E D /E 5. Press the ENTER button to add or delete for the channel number. 6.*

*Notes: · This channel number is a physical channel number, which is different from the normal channel number shown in Channel Edit. · TV: analog
antenna(over-the-air) TV signal DTV: digital antenna(over-the-air) TV signal CATV: analog cable TV signal CADTV: digital cable TV signal Operating
Guide 23 Operation Setup Menu Options Channel Edit - There are two different ways in order to add or delete scanned channels. One is "Custom List" and
the other is "Favorite List" in the channel list. Both of them are available after EZ Scan on the SETUP menu. - A Custom List can be created by toggling each
channel on or off with ENTER button. The channels in the Custom List are displayed in black color, and the channels deleted from the Custom List are
displayed in gray color. Once a channel is highlighted you can add or delete the channel by referring to the small window at the top-left corner of the
screen.You can create your own Favorite List. Use the FAV button on the remote control when a channel is highlighted and then you can add or delete the
channel to/from the Favorite List. 1.*

*Press the MENU button and then use 2. Press the G button and then use D /E button to select the SETUP menu. D /E button to select Channel Edit. 3. Press
the G button.*
*You will now see a screen filled with channel numbers and a preview picture. 4. Use D / E / F / G button to select a channel and then use the ENTER button to
add or delete it. Press FAV button to add the channel to the Favorite List. 5.*
*DTV Signal Strength - It indicates strength of the DTV signal whether you need to adjust your antenna or digital cable input. The higher the signal strength,
the less likely you are to experience picture degradation. - DTV Signal: Only when the input signal is DTV or CADTV, this function is available. 1. Press the
MENU button and then use 2. Press the G button and then use D /E button to select the SETUP menu. D /E button to select DTV Signal. 3. View the on-screen
signal strength monitor to see the quality of the signal being received. 4.*

*24 Plasma TV Operation Channel Label Setup - Choose preset labels for your channels. - If a channel label is provided on the signal from the broadcasting
station, the TV displays a short name for a channel even if you didn't preset a label for the channel. 1. Press the MENU button and then use 2. Press the G
button and then use D /E button to select the SETUP menu. D /E button to select Channel Label. 3. Press the G button. You will now see a screen filled with
Labels and a preview screen. 4.*
*Use the CH D/E button to select a channel to Label. 5. Use D / E / F / G button to select the appropriate label for the channel, then press ENTER button to set
the Label to the selected channel. - If you press ENTER button in TV viewing mode, you will see the channel banner. · For example: Input Source - Change
the picture source so you can watch your TV, cable TV, VCR, DVD, or any other devices that are connected to your TV.*
*1. Press the MENU button and then use 2. Press the G button and then use D /E button to select the SETUP menu. D /E button to select Input Source. 3.
Press the G button and then use D / E button to select the source: Antenna, Cable, Video, Front Video, Component1, Component2, RGB-DTV (or RGB-PC),
HDMI/DVI. 4. @@Note: · To toggle RGB-DTV and RGB-PC, select RGB-DTV(or RGB-PC) and press G button. Input Label - Sets a label to each input
source or lets you skip the input source which is not in use when you press TV/VIDEO button. 1. Press the MENU button and then use 2. Press the G button
and then use D /E button to select the SETUP menu. D /E button to select Input Label. 3. Press the G button and then use D / E button to select the source:
Video, Front Video, Component1, Component2, RGB, HDMI/DVI.*

*4. Press the F / G button to select the label. 5. Operating Guide 25 Operation V ideo Menu Options EZ Picture - EZ Picture adjusts the TV for the best picture
appearance. Select the preset value in the EZ Picture menu based on the program category. - When adjusting Video menu options (contrast, brightness, color,
sharpness, tint, and color temperature) manually, EZ Picture automatically changes to Custom. - Daylight, Normal, Night Time, Movie, Video Game, and
Sports settings are preset for optimum picture quality at the factory and are not adjustable. 1. Press the EZ PIC button repeatedly to select the picture
appearance setup option as shown below: Custom (your own settings), Daylight, Normal, Night Time, Movie, Video Game, and Sports. · You can also use the
VIDEO menu to adjust EZ Picture.*
*2. Press the EXIT button to save and return to TV viewing or press MENU button to return to the previous menu. Manual Picture Control (Custom option) (-
Adjust the picture appearance to suit your preference and viewing situations. 1. Press the MENU button and then use D /E button to select the VIDEO menu.
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 F / G button to make appropriate adjustments. 4.*
*Color Temperature Control - Choose one of three automatic color adjustments. Set to warm to enhance hotter colors such as red, or set to cool to see less
intense colors with more blue. 1. Press the MENU button and then use 2. Press the Warm. G D /E button to select the VIDEO menu. button and then use D /E
/E button to select Color Temperature . 3. Press the G button and then use D button to select either Cool, Medium or 4. V ideo Reset - Use to quickly reset all
the Video menu options to their original factory preset values.*

*1. Press the MENU button and then use 2. Press the G D /E button to select the VIDEO menu. button and then use D /E button to select Video Reset . 3. Press
the G button to reset the Video menu options to original values. 26 Plasma TV Operation Audio Menu Options Audio Language - Other languages may be
available if a digital signal is provided by the broadcasting station. 1. Press the MENU button and then use D 2. Press the G button and then use 3.
Press the French. G D /E /E button to select the AUDIO menu. button to select Audio Language. button to select: English, Spanish, or button and then use D
/E 4. EZ SoundRite - Scans for changes in sound level during commercials, then adjusts the sound to match the specified audio level.*

EZ SoundRite makes sure that the volume level remains consistent whether you are watching a commercial or a regular TV program. 1. Press the MENU button and then use D 2. Press the 3. Press the G G /E button to select the AUDIO menu.
button and then use button and then use D /E D /E button to select EZ SoundRite. button to select On or Off. 4. @@@@@@1. @@· You can also adjust EZ Sound in the AUDIO menu. 2. @@Press the MENU button and then use D 2. Press the G button and then use D (Balance, Treble, or Bass). 3. @@@@- Manufactured under license from Dolby Laboratories.

@@Press the MENU button and then use D 2. @@@@@@· SRS TruSurround XT Takes advantage of any multi-channel format without needing to add extra speakers or equipment. Dialog clarity, bass enrichment, and the addition of stereo audio enhancement that produces an immersive sound experience from standard stereo material. 4. TV Speakers On/Off Setup On/Off - Turn TV speakers off if using external audio equipment. Feature turns the TV Speakers option On or Off. 1. Press the MENU button and then use D 2. Press the 3. Press the G G /E button to select the AUDIO menu.
button and then use button and then use D /E D /E button to select TV Speaker. button to select On or Off. 4. @@1. Press the MENU button and then use D 2. Press the 3. @@button to select On or Off. 4. @@@@@@@@@@- Stereo or SAP can be received in a Analog channel. 1. @@@@@@2. @@@@@Press the MENU button and then use 2. Press the 3. @@button to select On or Off. 4. @@5. Manual Clock Setup - If current time setting is wrong, reset the clock manually. 1. Press the MENU button and then use 2. @@@@@@4.

On/Off Timer Setup On/Off Timer function operates only if the current time has been set. @@The TV must be in standby mode for the On-Timer to work. @@Press the MENU button and then use 2. Press the G button and then use D button to select the TIME menu. /E button to select Off Timer or On Timer. 3. 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.
Press the G G button and then use button and then use D /E D /E button to set the hour. button to set the minutes. button to select the channel at turn-on. button to set the sound level at turn-on. 6.
For only On timer function Press the G button and then use D Press the G button and then use D /E /E 7. 30 Plasma TV Operation Sleep Timer - The Sleep Timer turns the TV off at the preset time. Note that this setting is cleared when the TV is turned off. - You can also set up the Sleep Timer in the TIME menu. 1. Press the TIMER button repeatedly to select the number of minutes. When the Off option appears on the screen, highlight one of the following sleep timer options by using the navigation : 10, 20, 30, 60, 90, 120, 180, and 240 minutes. 2. When the number of minutes you want is displayed on the screen, press the ENTER button. The timer begins to count down from the number of minutes selected. 3. To check the remaining minutes before the TV turns off, press the TIMER button once. 4. To cancel the Sleep Timer, press the TIMER button repeatedly to select Off. Auto Off Off - If set to on and there is no input signal, the TV turns off automatically after 10 minutes.

1. Press the MENU button and then use D / E button to select the TIME menu. 2. Press the G button and then use D / E button to select Auto Off. 3. Press the G button and then use D /E button to select On or Off. 4. Operating Guide 31 Operation Option Menu Features Aspect Ratio Control 0- Lets you choose the way an analog picture with a 4:3 aspect ratio is displayed on your TV with a 16:9 ratio picture format. When you receive an analog picture with a 4:3 aspect ratio on your 16:9 TV, you need to specify how the picture is to be displayed. - If you are viewing a picture with a 16:9 aspect ratio, you can't use the Horizon aspect ratio option.
- Horizon aspect ratio is not available for Component 1-2(480p/720p/1080i)/RGB-DTV (480p/720p/1080i)/HDMI/DVI-DTV (720p/1080i) /DTV(720p/1080i) input source. - In RGB-PC/DVI-PC input source, only either 4:3 or 16:9 aspect ratio is available. - Note: If a fixed image is displayed on the screen for a long time, the image may become imprinted on the screen and remain visible. 1. @@You can also adjust Aspect Ratio in the OPTION menu.
@@@@@@@@@@However, the top and bottom portions of the picture will be cropped. @@@@@@@@@@The adjustment range is 1~16. Cinema 3:2 Mode Setup - Most movies are 24 frames/sec, but TV signal is 30 frames/sec. This option lets the TV do 3:2 pull-down operation for you to watch movies at the best motion appearance. 1.
Press the MENU button and then use D 2. Press the G button and then use 3. Press the G button and then use D /E D /E /E button to select the OPTION menu. button to select Cinema 3:2 Mode. button to select On or Off. 4. @@Note: This feature operates only in Component 480i, S-Video, Video mode. 32 Plasma TV Operation Caption 1. Press the MENU button and then use menu. 2.

Press the G button and then use 3. Press the G button and then use D /E D /E D /E button to select the OPTION button to select Caption. button to select On or Off. 4. Caption/Text Caption/Text Analog Broadcasting System Captions Select a caption mode for displaying captioning information if being provided on a program. Analog caption displays information at any position on the screen. Text displays information, usually at the bottom position and is used for a data service. Caption/Text, if being provided by the broadcaster, would be available for both digital and analog channels on the Antenna/Cable. - This TV is programmed to memorize the caption/text mode which was last set to, when you turn the power off. 1.
Use the CC button repeatedly to select Caption CC1, CC2, CC3, CC4, Text1, Text2, Text3, or Text4. 2. Press EXIT button to save and return to TV viewing. · You can also use the OPTION menu to select Caption/Text. 1.
Press the MENU button and then use D / E button to select the OPTION menu. 2. Press the G button and then use D / E button to select Caption/Text. 3. Press the G button and then use D / E button to select caption: CC1, CC2, CC3, CC4, Text1, Text2, Text3, or Text4.
· CAPTION The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program is provided for the hearing impaired. · TEXT The term for the words that appear in a large black frame and almost cover the entire screen; usually messages are provided by the broadcaster. 4. Digital Broadcasting System Captions - Choose the language you want the DTV/CADTV Captions to appear in. - Languages can be chosen for digital sources only if they are included on the program. 1. Press the MENU button and then use D / E button to select the OPTION menu. 2. Press the G button and then use D / E button to select Caption/Text. 3.

Press the G button and then use D / E button to select available caption languages: English, Spanish, or French.

4. SETUP VIDEO AUDIO TIME OPTION Aspect Ratio Cinema 3:2 Mode Caption Caption / Text Caption Option Language ISM Method Low Power MENU Previous G English Spanish French LOCK Operating Guide 33 Operation Option Menu Features Caption Option - Customize the DTV/CADTV captions that appear on your screen. 1. Press the MENU button and then use D menu. 2. Press the G button and then use 3. Press the G button and then use D /E F /G /E button to select the OPTION button to select Caption Option. button to select Custom. 4.

Use D / E button to customize the Style, Font, etc., to your preference. A preview icon is provided at the bottom of the screen, use it to see the caption language. · Size: Set the size of the words. · Font: Select a typeface for the words.

· Text Color: Choose a color for the text. · Text Opacity: Specify the opacity for the text color. · Bg (Background) Color: Select a background color. · Bg (Background) Opacity: Select the opacity for the background color. · Edge Type: Select an edge type.

· Edge Color: Select a color for the edges. 5. ISM (Image Sticking Minimization) Method - A frozen still picture from a PC/video game displayed on the screen for prolonged periods will result in a ghost image remaining; even though the image is changed. Use our unique method to minimize any fixed image on the screen. 1. Press the MENU button and then use menu. 2. Press the G D /E button to select the OPTION button and then use D /E /E button to select ISM Method. 3. Press the G button and then use D Wash, Orbiter or Inversion.

button to select either Normal, White · Normal If image sticking is never a problem, ISM is not necessary - set to Normal. · White wash White Wash removes permanent images from the screen. Note: An excessive permanent image may be impossible to clear entirely with White Wash. To return to normal viewing, press the any button. · Orbiter Orbiter may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the image will move once per 2 minutes: Left Right Upside Downside Right Left Downside Upside. · Inversion Inversion will automatically invert the plasma display panel color every 30 minutes. 4. 34 Plasma TV Operation Low Power - Low power reduces the plasma display power consumption.

1. Press the MENU button and then use menu. 2. Press the 3. Press the G G D /E button to select the OPTION button and then use button and then use D /E D /E button to select Low Power.

button to select On or Off. · When you select On, the screen darkens. 4. Operating Guide 35 Operation Lock Menu Options Parental Control can be used to block specific channels, ratings and other viewing sources. The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcasting station.

The default setting is to allow all programs to be viewed. Viewing can be blocked by choosing the type of the program and the categories. It is also possible to block all program viewing for a time period. To use this function, the following must be done : 1. Set ratings and categories to be blocked. 2. Specify a password 3. Enable the lock V-Chip rating and categories Rating guidelines are provided by broadcasting stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

Ratings for Movies previously shown in theaters: Movie Ratings : · Blocking Off (Permits all programs) ·G (General audience) · PG (Parental guidance suggested) · PG-13 (Parents strongly cautioned) ·R (Restricted) ·NC-17 (No one 17 and under admitted) ·X (Adult only) If you set PG-13 : G and PG movies will be available , PG-13, R, NC-17 and X will be blocked. Ratings for Television programs including made-for-TV movies : · TV-G · TV-PG · TV-14 · TV-MA · TV-Y · TV-Y7 TV Rating Children: · Age · Fantasy Violence TV Rating General: · Age · Dialogue - sexual dialogue · Language - adult language · Sex - sexual situations · Violence Input Block · Video, Front Video · Component 1, 2 · RGB, HDMI/DVI (On, Off) (On, Off) (On, Off) (General audience) (Parental guidance suggested) (Parents strongly cautioned) (Mature audience only) (All children) (Children 7 years older) (applies to TV-Y, TV-Y7) (applies to TV-Y7) (applies (applies (applies (applies (applies to TV-G, TV-PG, TV-14, TV-MA) to TV-PG, TV-14) to TV-PG, TV-14, TV-MA) to TV-PG, TV-14, TV-MA) to TV-PG, TV-14, TV-MA) 36 Plasma TV Operation Parental Lock Setup - Set up blocking schemes to block specific channels, ratings, and external viewing sources. - A password is required to gain access to this menu. 1. Press the MENU button and then use D Then, press the G button /E button to select the LOCK menu. · The TV is set up with the initial password "0-0-0-0". 2. Use the D / E button to choose from the following Lock Menu options. Once the option is selected, change the settings to your preference. · Lock System: Enables or disables the blocking scheme you set up previously.

· Set Password: Change the password by inputting a new password twice. · Block Channel: Blocks any channels that you do not want to watch or that you do not want your children to watch. · Movie Rating (MPAA): Blocks movies according to the movie ratings limits specified, so children cannot view certain movies. You can set the ratings limit by blocking out all the movies with the ratings above a specified level. Keep in mind that the movie ratings limit only applies to movies shown on TV, not TV programs, such as soap operas.

· TV Rating-Children: Prevents children from watching certain children's TV programs, according to the ratings limit set. The children rating does not apply to other TV programs. Unless you block certain TV programs intended for mature audiences in the TV Rating - sub menu, your children can view those programs. · TV Rating-General: Based on the ratings, blocks certain TV programs that you and your family do not want to view. · Input Block: Enables you to select a source to block from the external source devices you have hooked up.

3. @@Note: · If you ever forget your password, key in '7', '7', '7', '7' on the remote control. Operating Guide 37 Operation Remote Control EPG (Electronic Program Guide) (In DTV mode) - This system has an Electronic Program Guide (EPG) to help your navigate through all the possible viewing options. - The EPG supplies information such as program listings, start and end times for all available services.

- This function can be used only when the EPG information is broadcasted by broadcasting companies. - The EPG displays the program description for next 7 days. - This function is only supported in DTV mode. 1. Press the GUIDE button to switch on EPG. 2.

Press the D / E / F / G button to select desired program, then press the ENTER button to display the selected program. 3. Press the GUIDE or EXIT button again to switch off EPG and return to TV viewing. 38 Plasma TV Operation Brief Info. Brief Info shows the present screen information. Press the INFO button to show the Brief Info on the screen. INFO button does not work in Component1, Component2, RGB, and HDMI/DVI modes. Press the INFO button or EXIT button to exit. Operation: · Watching TV/DTV/CATV/CADTV · Watching Video, Front Video · In Component1, Component2, RGB, HDMI/DVI modes, INFO button is not working. Function: · Show the present screen information.
· On Watching with the upper Input signal, press the INFO button. · Press the INFO button or EXIT button to exit. A: Banner information B: Program title C: Day of week, Month, Year D: Program start time E: Program progress bar F: Program finish time G: Present time H: Additional information. Refer to the icon explanation on the right. 4:3 16 : 9 The original aspect ratio of the video is 4:3 The original aspect ratio of the video is 16:9(wide) video video video video resolution resolution resolution resolution is is is is 720x480i 720x480p 1280x720p 1920x1080i 480i 480p 720p The The The 1080i The CC Multilingual : The program contains two or more audio services.
Press the SAP button to select wanted Audio. Caption: => The program contains one or more caption services. Press the CC button to select wanted Closed caption. The program contains V-Chip information. Refer to the <LOCK Menu>.
D (Dialogue), L (Language), S (Sex), V (Violence), FV (Fantasy Violence) B C D E F G A H Operating Guide 39 Operation Mute - When you repeatedly press the MUTE button, the sound mode is changed in turn. (Refer to the picture below) Mute 24 Mute : Sound is muted. Mute Off : Sound is enabled. Freeze - Freezes the currently-viewed picture. 1. Press the FREEZE button to freeze the screen section. 2. To return to normal viewing, press the FREEZE button again. 40 Plasma TV Operation Screen Setup for PC mode Operation · When RGB connect to PC input and select the RGB-PC, this function is used. · When HDMI/DVI connect to PC input and select HDMI/DVI input, this function is used.

· In RGB-DTV mode, SIZE and PHASE is not available. Adjustment for screen Position, Size, Phase, Reset ·After connecting RGB-PC or HDMI/DVI to PC input and checking the screen quality. - Display PC Adjust Menu using ADJUST button. - Position : Adjust the screen position. After displaying the Adjust, select the screen position. - Size - Phase : Adjust the screen size. : Adjust the phase of Pixel clock. In HDMI/DVI-PC mode, PHASE is not available. : Initializating Position, Size, Phase adjustment . - Reset Operating Guide 41 External Control Device Setup 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.
- 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. RS-232C Setup MONITOR OUTPUT COMPONENT INPUT 2 DVD /DTV INPUT (MONO) A/V INPUT COMPONENT INPUT 1 L R L R VIDEO AUDIO S-VIDEO VIDEO AUDIO ANTENNA RGB/DVI AUDIO INPUT REMOTE CONTROL CABLE HDMI /DVI (VIDEO) INPUT DIGITAL AUDIO OPTICAL OUTPUT RS-232C INPUT (CONTROL/SERVICE) RGB INPUT AC INPUT PC Type of Connector; D-Sub 9-Pin Male 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 1 5 9 6 RS-232C Configurations 7-Wire Configurations (Standard RS-232C cable) PC PDP 3-Wire Configurations (Not standard) PC PDP RXD TXD GND DTR DSR RTS CTS 2 3 5 4 6 7 8 D-Sub 9 3 2 5 6 4 8 7 D-Sub 9 TXD RXD GND DSR DTR CTS RTS RXD TXD GND DTR DSR RTS CTS 2 3 5 4 6 7 8 D-Sub 9 3 2 5 4 6 7 8 D-Sub 9 TXD RXD GND DTR DSR RTS CTS 42 Plasma TV External Control Device Setup Set ID Use this function to specify a monitor ID number. Refer to `Real Data Mapping'.
See page 44. 1. Press the MENU button and then use 2. Press the G button and then use D /E D /E button to select the SETUP menu. button to select SET ID. 3. Press the G button and then use D / E button to adjust SET ID to choose the desired monitor ID number. The adjustment range of SET ID is 1 ~ 99. 4. Communication Parameters · Baud rate : 9600 bps (UART) · Data length : 8 bits · Parity : None * Use a crossed (reverse) cable. · Stop bit : 1 bit · Communication code : ASCII code Transmission / Receiving Protocol Transmission [Command1][Command2][ ][Set ID][ ][Data][Cr] * [Command 1]: First command to control the set.(j,k,m or x) * [Command 2]: Second command to control the set. * [Set ID]: You can adjust the set ID to choose desired monitor ID number in Setup menu. Adjustment range is 1 ~ 99. When selecting Set ID `0', every connected the TV is controlled.

Set ID is indicated as decimal (1~99) on menu and as Hexa decimal (0x0~0x63) on transmission/receiving protocol. * [DATA]: To transmit command data. Transmit `FF' data to read status of command. * [Cr]: Carriage Return ASCII code `0x0D' * [ ]: ASCII code `space (0x20)' OK Acknowledgement [Command2][ ][Set ID][ ][OK][Data][x] * 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 [Command2][ ][Set ID][ ][NG][Data][x] * The Monitor transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors. Data 1: Illegal Code 2: Not supported function 3: Wait more time Command Reference List COMMAND 1 COMMAND 2 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.
Remote Control Lock Mode 14. Treble 15. Bass 16. Balance 17. Color Temperature 18. ISM Method 19. Low Power 20. Orbiter Time Setting 21. Orbiter Pixel Setting k k k k k k k k k k k k k k k k k k j j j j a b c d e f g h i j k l m r s t u p q r s DATA (Hexadecimal) 0~1 0~8 *(Refer to p.44) 0~1 0~1 0 ~ 64 0 ~ 64 0 ~ 64 0 ~ 64 0 ~ 64 0 ~ 64 0~1 0~1 0 ~ 64 0 ~ 64 0 ~ 64 0~2 *(Refer to p.

46) 0~1 1 ~ FE 1 ~3 * This data will be explained in this document in detail. COMMAND 1 COMMAND 2 DATA 0 (Hexadecimal) DATA 1 (Hexadecimal) DATA 2 major low DATA 3 minor high DATA 4 minor low DATA 5 (Hexadecimal) (Hexadecimal) (Hexadecimal) (Hexadecimal) 22. Channel Tuning 23. Channel Add/Del 24. Key 25. Input Select m m m x a b c b physical/program high major/program low attribute 00 ~ 01 key code *(Refer to p.47) Operating Guide 43 External Control Device Setup 01. Power (Command2:a) G To control Power On/Off of the Monitor. Transmission [k][a][ ][Set ID][ ][Data][Cr] Data 0 : Power Off Acknowledgement [a][ ][Set ID][ ][OK][Data][x] * In a like manner, if other functions transmit ˋFF' data based on this format, Acknowledgement data feedback presents status about each function. 1 : Power On 05.

Volume Mute (Command2:e) G To control volume mute on/off. You can also adjust mute using the MUTE button on remote control. Transmission [k][e][ ][Set ID][ ][Data][Cr] Data 0 : Volume mute off (Volume on) 1 : Volume mute on (Volume off) Acknowledgement [e][ ][Set ID][ ][OK][Data][x] 02. Input Select (Command2:b) (Main Picture Input) G To select input source for the Monitor. Transmission [k][b][ ][Set ID][ ][Data][Cr] Data 0: DTV 1: Analog 2: Video 3: Front Video 4: Component 1 Acknowledgement [b][ ][Set ID][ ][OK][Data][x] 5: 6: 7: 8: Component 2 RGB-DTV RGB-PC HDMI/DVI 06. Volume Control (Command2:f) G To adjust volume. You can also adjust volume with the volume buttons on remote control. Transmission [k][f][ ][Set ID][ ][Data][Cr] Data Min : 0 ~ Max : 64 · Refer to ˋReal data mapping' as shown below. Acknowledgement [f][ ][Set ID][ ][OK][Data][x] 07. Contrast (Command2:g) G To adjust screen contrast.

You can also adjust contrast in the Video menu. 03. Aspect Ratio (Command2:c) (Main picture format) G To adjust the screen format. You can also adjust the screen format using the RATIO button on remote control or in the Option menu. Transmission [k][c][ ][Set ID][ ][Data][Cr] Date 1: 2: 3: 4: 5: 4:3 16:9 Horizon Zoom 1 Zoom 2 6: Set by program 10: Cinema Zoom (1) Transmission [k][g][ ][Set ID][ ][Data][Cr] Data Min : 0 ~ Max : 64 · Refer to ˋReal data mapping' as shown below. Acknowledgement [g][ ][Set ID][ ][OK][Data][x] 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 ˋReal data mapping' as shown below. Acknowledgement [h][ ][Set ID][ ][OK][Data][x] 1F: Cinema Zoom (16) Acknowledgement [c][ ][Set ID][ ][OK][Data][x] 04.

Screen Mute (Command2:d) G To select screen mute on/off. Transmission [k][d][ ][Set ID][ ][Data][Cr] Data 0 : Screen mute off (Picture on) 1 : Screen mute on (Picture off) Acknowledgement [d][ ][Set ID][ ][OK][Data][x] * Real data mapping 0 : Step 0 A : Step 10 (SET ID 10) F : Step 15 (SET ID 15) 10 : Step 16 (SET ID 16) 63 : Step 99 (SET ID 99) 64 : Step 100 44 Plasma TV External Control Device Setup 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 ˋReal data mapping'. See page 44. Acknowledgement [i][ ][Set ID][ ][OK][Data][x] 13. Remote Control Lock Mode (Command2:m) G To lock the remote control and the front panel controls on the set. Transmission [k][m][ ][Set ID][ ][Data][Cr] Data 0: Lock off Acknowledgement [m][ ][Set ID][ ][OK][Data][x] 1: Lock on 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 ˋReal data mapping'. See page 44. Acknowledgement [j][ ][Set ID][ ][OK][Data][x] 14. 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 ˋReal data mapping'. See page 44. Acknowledgement [r][ ][Set ID][ ][OK][Data][x] 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 ˋReal data mapping'. See page 44. Acknowledgement [k][ ][Set ID][ ][OK][Data][x] 15. 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 ˋReal data mapping'. See page 44. Acknowledgement [s][ ][Set ID][ ][OK][Data][x] 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 16. 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 ˋReal data mapping'. See page 44. Acknowledgement [t][ ][Set ID][ ][OK][Data][x] Operating Guide 45 External Control Device Setup 17. Color Temperature (Command2:u) G To adjust color temperature. You can also adjust color temperature in the Video menu. Transmission [k][u][ ][Set ID][ ][Data][Cr] Data 0: Medium Acknowledgement [u][ ][Set ID][ ][OK][Data][x] 1: Cool 2: Warm 21. Orbiter Pixel Setting (Command2:s) G To adjust pixel number in orbiter function.

Transmission [j][s][ ][Set ID][ ][Data][Cr] Data Min: 1 ~ Max: 3 Acknowledgement [s][ ][Set ID][ ][OK][Data][x] 22. Tune Command (Command: m a) 18. ISM Method (Command2:p) G To avoid having a fixed image remain on screen. Transmission [j][p][ ][Set ID][ ][Data][Cr] Data 1: Inversion 2: Orbiter 4: White Wash 8: Normal Acknowledgement [p][ ][Set ID][ ][OK][Data][x] Data 0: Physical Channel Number(Transmit by Hexadecimal code) NTSC air:02~45 NTSC cable: 01, 0E~7D ATSC air:01~45 ATSC cable:01~87 Data 1,Data 2: Major Channel Number(two part) or Channel Number(One part) Data1: High byte Data2: Low byte Two part channel number: Major number-Minor number One part channel number: If the channel band is ATSC digital cable, it can be used. In case of using one part chan nel number, minor channel does not need.

Data 3, Data 4: Minor Channel Number Data3: High byte Data4: Low byte Data 5: Main Picture Main Two/One Part Channel Two One Using 4 5 Physical Reserv Channel ed x Use 0 1 No Use x x x x x x Step NTSC Air G To tune channel to following physical/major/minor number Transmission [m][a][ ][Set ID][ ][Data0][ ][Data1][ ][Data2][ ][Data3][ ][Data4][ ][Data5][Cr] 19. Low Power (Command2:q) G To control the Low Power function on/off. You can also adjust Low Power in Option menu. Transmission [j][q][ ][Set ID][ ][Data][Cr] Data 0: Low Power off 1: Low Power on Acknowledgement [q][ ][Set ID][ ][OK][Data][x] 7 0 1 6 0 1 3 0 0 0 0 0 0 0 0 x 1 2 0 0 0 0 1 1 1 1 x 1 1 0 0 1 1 0 0 1 1 x 1 0 0 1 NTSC Cable 0 1 0 1 0 1 x 1 ATSC Air ATSC Cable_std ATSC Cable_hrc ATSC Cable_irc ATSC cable_auto Reserved 20.