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You can read the recommendations in the user guide, the technical guide or the installation guide for NEC P60XP10. You'll find the answers to all your questions on the NEC P60XP10 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual NEC P60XP10**  
**User guide NEC P60XP10**  
**Operating instructions NEC P60XP10**  
**Instructions for use NEC P60XP10**  
**Instruction manual NEC P60XP10**

**NEC**

**User's Manual**

English



**PlasmaSync 42XP10**  
**PlasmaSync 50XP10**  
**PlasmaSync 60XP10**



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**Manual abstract:**

Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with a dry cloth. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions. 8. @ @9. @ @A polarized plug has two blades with one wider than the other. @ @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 or apparatus combination to avoid injury from tip-over. 1. 2. 3. 4.

5. 6. 7. 16. Damage Requiring Service -The appliance should be serviced by qualified service personnel when: A. The power supply cord or the plug has been damaged; or B. Objects have fallen, or liquid has been spilled into the appliance; or C. The appliance has been exposed to rain; or D. The appliance does not appear to operate normally or exhibits a marked change in performance; or E. The appliance has been dropped, or the enclosure damaged.

17. Tilt/Stability - All monitors must comply with recommended international global safety standards for tilt and stability properties of its cabinet design. Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product. Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury. 18. Wall/Ceiling Mounting - The appliance should be mounted to a wall/ceiling only as recommended by the manufacturer. 19. Power Lines - An outdoor antenna should be located away from power lines. 20.

Outdoor Antenna Grounding - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric code. ANSI/NFPA No.70-1984, provides information with respect to proper grounding of the masts and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding connectors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode. 21.

Objects and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on apparatus 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 when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped Additional Safety Information 15.

This product may contain lead. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: [www.eiae.org](http://www.eiae.org). WARNING To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. English-1 Important Information WARNING TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. DO NOT USE THIS UNIT'S POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS UNLESS THE PRONGS CAN BE FULLY INSERTED. REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. CAUTION CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, MAKE SURE POWER CORD IS UNPLUGGED FROM WALL SOCKET.

TO FULLY DISENGAGE THE POWER TO THE UNIT, PLEASE DISCONNECT THE POWER CORD FROM THE AC OUTLET. DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. This symbol warns user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any part inside this unit. This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems. CAUTION: Please use the power cord provided with this display in accordance with the table below. If a power cord is not supplied with this equipment, please contact your supplier.

For all other cases, please use a power cord that matches the AC voltage of the power outlet and has been approved by and complies with the safety standard of your particular country. Plug Type North America European Continental U.K. Chinese Japanese Plug Shape Country Voltage U.S. A./Canada 120\* EU (except U.K.) 230 U.K.

230 China 220 Japan 100 \*When operating the PlasmaSync monitor with its AC 125-240V power supply, use a power supply cord that matches the power supply voltage of the AC power outlet being used. Canadian Department of Communications Compliance Statement DOC: This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. C-UL: Bears the C-UL Mark and is in compliance with Canadian Safety Regulations according to CAN/CSA C22.2 No. 60950-1. 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 distance between the equipment and receiver. FCC Information 1.

Use the attached specified cables with the P426Y0(P42XP10), P506Y1(P50XP10), or P606Y2(P60XP10) color monitor so as not to interfere with radio and television reception. (1) Please use the supplied power cord or equivalent to ensure FCC compliance. (2) Please use shielded video signal cable, 15-pin mini D-SUB to 15-pin mini D-SUB with ferrite cores on both ends (not included). 2. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used English-2 · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.



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· Consult your dealer or replace the monitor near a radiator or other heat sources. Do not put anything on top of monitor. · Handle with care when transporting.

Save packaging for transporting. · As is the case with any phosphor-based display (like a CRT monitor, for example) light output will gradually decrease over the life of a Plasma Display Panel. · To avoid sulfurization it is strongly recommended not to place the unit in a dressing room in a public bath or hot spring bath. CAUTION Immediately unplug your monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions: ·

When the power supply cord or plug is damaged. · If liquid has been spilled on, or objects have fallen into the monitor.

· If the monitor has been exposed to rain or water. · If the monitor has been dropped or the cabinet damaged. · If the monitor does not operate normally by following operating instructions. Recommended Use CAUTION CORRECT PLACEMENT AND ADJUSTMENT OF THE MONITOR CAN REDUCE EYE, SHOULDER AND NECK FATIGUE. CHECK THE FOLLOWING WHEN POSITIONING THE MONITOR: · For optimum performance, allow 20 minutes for warmup.

· Rest your eyes periodically by focusing on an object at least 5 feet away. Blink often. · Position the monitor at a 90 degree angle to windows and other light sources to minimize glare and reflections. · Clean the monitor surface with a lint-free, nonabrasive cloth. Avoid using any cleaning solution or glass cleaner. · Adjust the monitor's brightness and contrast controls to enhance readability. · Get regular eye checkups. Cleaning the Panel · When the panel becomes dusty or dirty, wipe gently with soft cloth. · Do not rub the panel with coarse material. · Do not apply pressure to the surface.

· Do not use OA cleaner. OA cleaner will cause deterioration or discolor the surface. English Cleaning the Cabinet · Unplug the power supply. · Gently wipe the cabinet with a soft cloth. · To clean the cabinet, dampen the cloth with a neutral detergent and water, wipe the cabinet and follow with a dry cloth.

NOTE: The surface of the cabinet is composed of many types of plastic. DO NOT clean with benzene thinner, alkaline detergent, alcoholic system detergent, glass cleaner, wax, polish cleaner, soap powder, or insecticide. Rubber or vinyl should not be in contact with the cabinet for an extended period of time. These types of fluids and materials can cause the paint to deteriorate, crack or peel. Ergonomics To realize the maximum ergonomic benefits, we recommend the following: · Use the preset Size and Position controls with standard signals.

· Use the preset Color Setting. · Do not use primary color blue on a dark background, as it is difficult to see and may produce eye fatigue due to insufficient contrast. · This equipment is not for use at video display work station according to Bildscharb V. For more detailed information on setting up a healthy work environment, refer to the following document: American National Standard for Human Factors Engineering of Visual Display Terminal Workstations ANSI-HFS Standard No. 100-1988 Published by: The Human Factors and Ergonomics Society P.

O. Box 1369, Santa Monica, California 90406. CLEANING THE VENT HOLES · Clean plasma ventilation areas using a vacuum cleaner with a soft brush nozzle attachment. · To ensure proper ventilation, cleaning the ventilation areas must be carried out monthly. More frequent cleaning may be necessary depending on the environment in which the plasma monitor is installed.

English-4 Recommended Use - continued To avoid or minimize image retention: Like all phosphor-based display devices and all other gas plasma displays, plasma monitors can be susceptible to image retention under certain circumstances. Certain operating conditions, such as the continuous display of a static image over a prolonged period of time, can result in image retention if proper precautions are not taken. To protect your investment in this plasma monitor, please adhere to the following guidelines and recommendations for minimizing the occurrence of image retention: · Always enable and use your computer's screen saver function during use with a computer input source. · Display a moving image whenever possible. · Change the position of the menu display from time to time. · Always power down the monitor when you are finished using it. OPERATING ENVIRONMENT Operating environment temperature and humidity: 0 °C to +40 °C (+32 °F to +104 °F); less than 80%RH (cooling vents not blocked) Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light) WARNING Not for use in a computer room as defined in the Standard for the Protection of Electronic Computer/Data Processing Equipment ANSI/NFPA 75. NOTE: Please use shielded video signal cable, 15-pin mini D-SUB to 15-pin mini D-SUB with ferrite cores on both ends (not included). To reduce the likelihood of image retention from long-term use: · Lower the Brightness and Contrast levels as much as possible without impairing image readability. · Display an image with many colors and color gradations (i.

e. photographic or photo-realistic images). · Create image content with minimal contrast between light and dark areas. Use complementary or pastel colors whenever possible. · Avoid displaying images with few colors and distinct, sharply defined borders between colors. Plasma monitor driving sound · The panel of the Plasma monitor is composed of extremely fine pixels and these pixels emit light according to received video signals. This principle may cause you to hear a buzz or electrical hum coming from the Plasma monitor. Also note that the rotation speed of the cooling fan motor increases when the ambient temperature of the Plasma monitor becomes high. You may hear the sound of the motor at that time. NOTE: The following items are not covered by the warranty.

· Image retention · Panel generated sound. Examples: Fan motor and electrical noises circuit humming /glass panel buzzing. English-5 Installation Using Optional Stand/Mounts An optional stand or mounting apparatus can be installed. Optional table top stand When stand or mounting apparatus is to be installed while the unit is face-down (Figure 1), be sure to lay the protective sheet (the foam sheet that the unit was wrapped in) underneath the unit on order to prevent damage to the screen. This unit must be used with a stand or some type of mounting apparatus.

This unit is not designed for use without additional support. · For correct Installation and Mounting it is recommended to use a trained, authorized dealer. · Failure to follow correct mounting procedures could result in damage to the unit or to the installer.



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· Product warranty does not cover damage caused by improper installation. Figure 1 Table Protective Sheet CAUTION: · To install, follow those instructions included with the stand or mounting apparatus.

Use only those devices recommended by the manufacturer. · Make sure to install stand or mounting apparatus to the unit while on a surface that is strong and stable enough to support the weight of the unit, such as a floor or sturdy table. · Use the specified clasps for installation. · Take necessary steps to prevent the unit from tipping or falling. Mounting Location The ceiling and wall must be strong enough to support the monitor and mounting accessories. · DO NOT install in locations where a door or gate can hit the unit. · DO NOT install in areas where the unit will be subjected to strong vibrations and dust. · DO NOT install near where the main power supply enters the building. · DO NOT install in where people can easily grab and hang onto the unit or the mounting apparatus. · When mounting in an enclosure or in a recessed area, as in a wall, leave at least 2 inches (50mm) of space between the monitor and the wall for proper ventilation (Figure 2).

· Allow adequate ventilation or provide air conditioning around the monitor, so that heat can properly dissipate away from the unit and mounting apparatus. Figure 2 50mm (2") 50mm (2") 50mm (2") 50mm (2") English-6 50mm (2") English Installation - continued Mounting on Ceiling · Ensure that the ceiling is sturdy enough to support the weight of the unit and the mounting apparatus over time, against earthquakes, unexpected vibrations, and other external forces. · Be sure the unit is mounted to a solid structure within the ceiling, such as a support beam. Secure the monitor using bolts, spring lock washers, washer and nut. · DO NOT mount to areas that have no supporting internal structure. DO NOT use wood screws or anchor screws for mounting. DO NOT mount the unit to trim or to hanging fixtures. EXIT Maintenance · Periodically check for loose screws, gaps, distortions, or other problems that may occur with the mounting apparatus. If a problem is detected, please refer to qualified personnel for service. · Regularly check the mounting location for signs of damage or weakness that may occur over time.

Cable Management To conveniently manage cables, use the cable clamps provided to bundle the power cord together with the signal and audio cables at the back of the display. To attach cable clamps: 1. Attach the cable clamps to the display. Insert the anchor of the clamp into the hole on the back of the display.

There are 4 cable clamps and 4 clamp holes on the unit.

2. After the cable clamp is positioned on the display, wrap the end around the cables. Place the end of the clamp into the slot near the anchor. Pull until cables are snug. Clamps are designed to stay in place.

Once in position, they will be difficult to remove. 3. Cables can be routed to the right or left of the clamp. Use the beaded bands to secure the cables together along their length. Make sure the cables are fully supported. To detach clamps: Using pliers, twist the clamp 90 degrees and pull outward. It is possible that the clamp can weaken over time and removing it may cause damage to the clamp. Anchor Slot INPUT MUTE EXIT INPUT MUTE Please note the following when mounting on wall or ceiling. · When using mounting accessories other than those that are NEC approved, they must comply with the VESA compatible (FDMIv1) mounting method. · NEC strongly recommends Unit Mounting Bracket using size M8 screws (16mm + thickness of bracket in length).

If using screws longer than 16mm, Screw check the depth of the 16mm hole. (Recommended Fasten Thickness Force: 1125 - 1375N·cm) of Bracket NEC recommends mounting interfaces that Screw length should equal comply with UL1678 depth of hole (16mm) + the standard in North America. thickness of mounting bracket. Orientation When using the display in the portrait position, the monitor should be rotated clockwise so that the left side is moved to the top and the LED indicator light is on the bottom. This will allow for proper ventilation and will extend the lifetime of the monitor. Improper ventilation may shorten the lifetime of the monitor. When using the display in the portrait position, please turn the Cooling Fan "ON" in the OPTION2 OSD menu. Holes for Clamp anchors Closed Clamp English-7 Installation - continued Using the Remote: Install the remote control batteries. The remote control is powered by AA batteries. To install or replace batteries: Operating Range for the Remote Control Point the top of the remote control toward the monitor's remote sensor while pressing buttons.

The remote control can be used from the front of the monitor at a maximum distance of 7 m/23 ft. from the front of the Plasma monitor's remote control sensor. The maximum horizontal and vertical angle for use of the remote is 30 degree within a distance of 3.5 m/11.5 ft.

English CAUTION A. Press and slide to open the cover. B. Align the batteries according to the (+) and (-) indications inside the case. C.

Replace the cover. CAUTION: Incorrect usage of batteries can result in leaks or bursting. NEC recommends the following battery use: · Place "AA" size batteries matching the (+) and (-) signs on each battery to the (+) and (-) signs of the battery compartment. · Do not mix battery brands. · Do not combine new and old batteries, or mix brands. This can shorten battery life or cause liquid leakage of batteries. · Remove dead batteries immediately to prevent battery acid from leaking into the battery compartment. · Do not touch exposed battery acid, it may injure skin. · Do not drop or mishandle the remote. · Do not get the remote control wet.

If the remote does get wet, wipe dry immediately. · Avoid excessive heat and humidity. · Do not dispose of batteries in fire. · Please follow government regulations or public environmental rules that apply in your country/area when disposing of used batteries. · When replacing, use only conventional nonrechargeable alkaline or manganese batteries. · There is a risk of explosion if batteries are replaced incorrectly. The remote control may not function when direct sunlight or strong illumination strikes the remote control sensor of the Plasma monitor, or when there is an object in the path of the sensor. Handling the Remote Control Do not open the remote control other than to install batteries. Do not allow water or other liquid to splash onto the remote control. If the remote control gets wet, wipe it dry immediately.

Avoid exposure to heat and steam. NOTE: If you do not intend to use the Remote Control for a long period of time, remove the batteries.



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EXIT INPUT MUTE 30 POWER ON STANDBY RGB PICTURE MODE DVD/HD VIDEO PICTURE MEMORY SIZE 30 1 4 7 2 5 8 0 3 6 9 DISPLAY MENU SET AUTO SET UP + EXIT ZOOM VOL + POINTER + MUTE SPLIT SCREEN PIP S BY S SINGLE SWAP SELECT/FREEZE CAPTURE REMOTE ID SET RESET SLEEP REMOTE CONTROLLER RU-M113 English-8 Part Names and Functions Control Panel 9 EXIT INPUT MUTE ON OFF 10 8 7 6 5 4 3 2 1 1)

POWER Switches the power on/standby. 2) MUTE Switches the audio mute ON/OFF. 3) INPUT Switches between input sources.

Acts as SET button within the OSD menu. 4) PLUS (+) Increases the setting adjustment within OSD menu. 5) MINUS (-) Decreases the setting adjustment within OSD menu. 6) UP ( ) Increases the volume level when the OSD is off. Moves area up to select which setting to be adjusted within OSD menu. 7) DOWN ( ) Decreases the volume level when the OSD is off. Moves down to select which setting is to be adjusted within OSD menu. 8) EXIT Activates the OSD menu when the OSD menu is off. Exits from the current menu being displayed to the previous menu within the OSD. 9) Remote control sensor and Power indicator Receives the signal when using the wireless remote control. Glows green when the monitor is active. Glows red when the monitor is in Standby mode. Glows Amber when the monitor is in POWER SAVE mode. A red blinking Power indicator means that the monitor has detected a failure. Contact qualified personnel in case of failure.

10) Main Power Switch Seesaw switch to turn the main power on/off. Mode Power On Standby Power save Diagnosis (Detecting failure) Status indicator light Green Red Amber Red blinking NOTE: The POWER button does not completely turn off the display. Use the Main Power Switch to completely turn off the display. English-9 Part Names and Functions Terminal Panel English 1 12 HD R VD R R IN R L OUT IN EXTERNAL CONTROL DVI L (MONO) AUDIO3 VGA R/Cr/Pr G/Y B/Cb/pb L(MONO) AUDIO2 Y Cr/Pr Cb/Pb DVD/HD1 L(MONO) AUDIO1 S-VIDEO IN IN/OUT VIDEO SPEAKER (S) RGBHV /DVD/HD2 AC IN 2 3 4 5 6 7 8 9 10 11 13 14 1) EXTERNAL CONTROL OUT (D-Sub 9 pin) Connect RS-232C output to a second monitor. 2) EXTERNAL CONTROL (D-Sub 9 pin) Connect RS-232C input to external equipment such as a PC in order to control RS-232C functions. 3) DVI Input digital RGB signals from a computer or HDTV device having a digital RGB output. 4) AUDIO3 Input the audio signal from external equipment such as a computer, VCR or DVD player. 5) VGA (Mini D-Sub 15 pin) Analog computer input or output. For proper operation select "D-SUB INPUT" in the OPTION1 OSD menu. 6) RGBHV/DVD/HD2 RGBHV: Input RGB signals from RGB equipment.

A Sync-on-Green signal can be connected using the G connector. DVD/HD2: Connect equipment such as a DVD player, HDTV device, or set-top box. This input can be used with an RGB or component source. For proper operation select "BNC INPUT" in the OPTION1 OSD menu. 7) AUDIO2 Input the audio signal from external equipment such as a computer, VCR or DVD player.

8) DVD/HD1 Connect equipment such as a DVD player, HDTV device, or set-top box. 9) AUDIO1 Input the audio signal from external equipment such as a computer, VCR or DVD player. 10) S-VIDEO in Input S-video. 11) VIDEO1 Composite video input or output. 12) VIDEO2 Composite video input.

13) EXTERNAL SPEAKER (L and R) connector Connects to optional speakers. Output the audio signal from AUDIO 1, 2, and 3 to external speakers. NOTE: Speaker Terminal is for 8W + 8W (8 ohm). 14) AC IN Connects with the supplied power cord. Information: For Y/Cb/Cr connections, use the DVD/HD1 or DVD/HD2 terminals. For SCART connections there are 3 ways to connect: SCART1: Connect R/G/B to the DVD/HD2 terminals and composite sync. to the HD terminal. SCART2: Connect R/G/B to the DVD/HD2 terminals and composite sync. to the VIDEO1 terminal. SCART3: Connect R/G/B + composite sync.

to the VGA terminal. English-10 Part Names and Functions - continued Remote Control Functions 7) KEYPAD Set REMOTE ID. POWER ON STANDBY 1 2 3 5 RGB DVD/HD VIDEO PICTURE MEMORY 8) DISPLAY Turn on/off the Information OSD. 9) Move selection up or down 10) AUTO SETUP Adjusts the CLOCK PHASE, CLOCK, and POSITION settings automatically. (Analog RGB signal input only) 11) POINTER Turn on/off the pointer. 15 4 6 PICTURE MODE SIZE 1 4 7 7 2 5 8 0 3 6 9 DISPLAY MENU 8 9 AUTO SET UP 12) VOLUME Increases/Decreases sound level. 13) SPLIT SCREEN PIP: Picture-in-Picture mode. S BY S: Side-by-side mode. SINGLE: Returns to normal mode. SWAP: Swaps the Split Screen images.

When the QUICK SWAP function (see OSD OPTION4) is ON, SWAP can be used to change signal input. (Single screen mode) SELECT/FREEZE: Selects which input is active when in split screen mode. When the PIC FREEZE function (see OSD Option4) is operating, SELECT/FREEZE can be used to display still pictures on the sub screen. CAPTURE : Captures still picture. 14) REMOTE ID Activates REMOTE ID function.

15) MENU Turns ON/OFF menu mode. 16) SET Makes selection. 17) -, + Increases or decreases amount of adjustment. 18) EXIT Goes to the previous menu. 19) ZOOM Enlarges or reduces the picture.

20) MUTE Mutes audio output. 21) SLEEP Sleep timer. NOTE: Any buttons without a corresponding explanation will not work with the Plasmasync display.

English-11 SET + EXIT ZOOM 16 17 18 10 11 VOL + 12 13 SWAP POINTER + 19 MUTE SPLIT SCREEN PIP S BY S 20 SINGLE SELECT/FREEZE CAPTURE REMOTE ID SET RESET SLEEP 14 21 REMOTE CONTROLLER RU-M113 1) POWER ON/STANDBY Switches the power on/standby. \*If the Power Indicator on the display is not glowing, then no controls will work. 2) VIDEO Switches the input signal to the VIDEO source. 3) RGB Switches the input signal to the RGB source. 4) DVD/HD Switches the input signal to the DVD/HD source. 5) PICTURE MODE Selects Picture Mode: [STANDARD], [BRIGHT], [CINEMA1], [CINEMA2], [DEFAULT]. STANDARD: for viewing in a bright room BRIGHT: brighter picture than STANDARD CINEMA1, 2: for viewing in a dark room, good for movies DEFAULT: factory default settings 6) SIZE Set the aspect ratio of the image.

Part Names and Functions - continued POWER To turn the unit ON and OFF: 1. Plug the power cord into an AC outlet. 2. Press the Power button (on the unit). The monitor's ON/STANDBY indicator turns red and the unit will be in STANDBY mode. 3. Press the POWER ON button on the remote control. The ON/STANDBY indicator will turn green when the unit is active. 4. Press the STANDBY button (on the remote) or the Power button (on the unit) to turn off the monitor.

Main Power Switch Cover English Included with the display is a cover for the Main Power Switch. Use this cover to prevent the unit from being inadvertently powered off. Place the tab on the cable cover into the rectangular slot on the display. Then using the screw provided, secure the cover to the display.



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DISPLAY To check display settings press the DISPLAY button on the remote.

The screen changes each time the DISPLAY button is pressed. Display information will disappear after 3 seconds. ON OFF DIGITAL ZOOM Digital zoom can change the picture position or enlarge the image on the screen. 1. Be sure ZOOM NAV function is off.

Press the ZOOM button (+ or -) to display the magnifying glass. Press the ZOOM + button to enlarge the image. Press the ZOOM - button to reduce the image. Press the UP and DOWN or PLUS and MINUS buttons to reposition the picture. 2. Press the POINTER button to hide the pointer. TAB SLOT Main Power Switch Cover POINTER Use the Pointer to point to a specific area on the screen. Press the UP and DOWN or PLUS and MINUS buttons to reposition the Pointer. English-12 Part Names and Functions - continued REMOTE CONTROL ID The remote control included with the display can be used to control up to 26 individual monitors using what is called the REMOTE CONTROL ID mode. The REMOTE CONTROL ID mode works in conjunction with the Monitor ID, allowing control of up to 26 individual monitors.

For example: if there are many monitors being used in the same area, a remote control in normal mode would send signals to every monitor at the same time Figure 1. Using the remote in REMOTE CONTROL ID mode will only operate one specific monitor within the group Figure 2. Remote Control ID Function Monitor ID:1 Monitor ID:2 Monitor ID:3 EXIT INPUT MUTE EXIT INPUT MUTE EXIT INPUT MUTE Remote works Remote works Remote works TO SET

REMOTE CONTROL ID: While holding down the REMOTE ID SET button on the remote control, use the KEYPAD to input the Monitor ID (1-26) of the display to be controlled via remote. The remote can then be used to operate the monitor having that specific Monitor ID number. When 0 is selected or when the remote control is in normal mode, all monitors will be operated. POWER ON STANDBY RGB PICTURE MODE DVD/HD VIDEO PICTURE MEMORY SIZE Figure 1 Remote in Normal mode or the REMOTE ID is set to 0 1 4 7 2 5 8 0 3 6 9 DISPLAY MENU SET AUTO SET UP + EXIT ZOOM VOL + POINTER + MUTE SPLIT SCREEN PIP S BY S SINGLE SWAP SELECT/FREEZE CAPTURE REMOTE ID SET RESET SLEEP REMOTE CONTROLLER RU-M113 TO USE REMOTE CONTROL ID MODE ID Mode - To enter ID Mode press the REMOTE ID SET button and hold down for 2 seconds. Normal Mode - To return to Normal Mode press the REMOTE ID RESET button and hold down for 2 seconds. In order for this feature to work properly, the display must be assigned a Monitor ID number. The Monitor ID number can be assigned under the OPTION3 menu in the OSD (See page 17). If monitor ID is set to "ALL", monitor is controlled by remote control not depend on remote ID.

Figure 2 Remote set up to use Remote ID:3 Monitor ID:1 Monitor ID:2 Monitor ID:3 EXIT INPUT MUTE EXIT INPUT MUTE EXIT INPUT MUTE Remote does not work Remote does not work Remote works POWER ON STANDBY RGB PICTURE MODE DVD/HD VIDEO PICTURE MEMORY SIZE 1 4 7 2 5 8 0 3 6 9 DISPLAY MENU SET AUTO SET UP + EXIT ZOOM VOL + POINTER + MUTE SPLIT SCREEN PIP S BY S SINGLE SWAP SELECT/FREEZE CAPTURE REMOTE ID SET RESET SLEEP REMOTE CONTROLLER RU-M113 English-13 On-Screen Display (OSD) Using the OSD Use the Remote Control or the control panel on the front of the unit to enter the on-screen display menu to adjust settings. 1. Press the MENU button on the remote or the EXIT button on the Control Panel. 2. Use the up and down buttons to select the desired menu.

3. Press the SET button to select a sub-menu or item for adjustment. 5. Press the EXIT button on the Remote Control, on the Control Panel to return to the previous menu. NOTE: Not all menu functions may be available.

To access all functions the Advanced OSD option must be turned on in the ADVANCED OSD menu. English 4. Change the setting or adjustment by pressing the + and - buttons on the Control Panel or the Remote Control. Press UP or DOWN button to select sub-menu. Press SET. Press UP, DOWN, PLUS, or MINUS to select the function or setting to be adjusted. Press MENU or EXIT. Remote Control Control Panel Press UP or DOWN button to select. Press INPUT button to decide. Press UP, DOWN, PLUS, or MINUS to select.

Press EXIT. EXIT INPUT MUTE OSD Screen MAIN MENU PICTURE AUDIO SCREEN OPTION1 1/2 PICTURE AUDIO SCREEN OPTION1 OPTION2 OPTION3 OPTION4 ADVANCED OSD NEXT PAGE SEL. MAIN MENU 1/2 ADVANCED OSD NEXT PAGE SEL. OFF ENTER EXIT ON ENTER EXIT ADVANCED OSD is OFF. Not all OSD functions will be available when the ADVANCED OSD is off. English-14 Advanced OSD is ON. All OSD functions are shown, but some OSD functions may not be available. On-Screen Display (OSD) Main Menu PICTURE Sub Menu CONTRAST BRIGHTNESS SHARPNESS COLOR TINT PICTURE MODE Sub Menu2 Sub Menu3 Explanation Adjusts the image brightness in relationship to the white level. Press + or - to adjust. Adjusts the image brightness in relationship to the background.

Press + or - to adjust. Adjusts the crispness of the image. Press + or - to adjust. Adjusts the color depth of the screen. Press + or - to adjust. Adjusts the tint of the screen. Press + or - to adjust. Selects picture mode, [BRIGHT], [STANDARD], [CINEMA1], [CINEMA2], [DEFAULT]. STANDARD: For watching in a bright room. CINEMA1, 2: For watching in a dark room, especially good for movies.

BRIGHT: Brighter picture than STANDARD. DEFAULT: Restores factory default settings. Adjusts the amount of noise reduction. Press + or - to adjust. Adjusts the color temperature of the entire screen. A low color temperature will make the screen reddish. A high color temperature will make the screen bluish. GAIN RED GAIN GREEN GAIN BLUE RESET GAMMA Available only when the Advanced OSD function is enabled. The "WHITE BALANCE" appears when the SET button is pressed on the "COLOR TEMP." OSD menu.

GAIN RED/GREEN/BLUE: Adjusts the white level of the white balance. Resets the factory default settings. Select "ON", then press the SET button to reset. Select a display gamma for best picture quality. 2.1, 2.2, 2.3, 2.4: The picture becomes darker as the number increases. S: Special gamma for certain types of movies.

Raises the dark parts and lowers the light parts of the image. (S-Curve) These values are approximate. RED GREEN BLUE YELLOW MAGENTA CYAN RESET AUDIO BASS TREBLE BALANCE AUDIO INPUT1 AUDIO INPUT2 AUDIO INPUT3 Resets the factory default settings. Select "ON", then press the SET button to reset. Adjusts the low frequency sound.

Press + or - to adjust. Adjusts the high frequency sound. Press + or - to adjust. Adjusts the balance of L/R volume. Press + or - to adjust. Select which audio input to use with the video source. Adjusts the levels of the Red, Green, Blue, Yellow, Magenta and Cyan. VIDEO and DVD/HD input only. Default 50 50 50 50 50 STANDARD Reset YES YES YES YES YES YES NR COLOR TEMP.



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OFF MID YES YES WHITE BALANCE Available only when the Advanced OSD function is enabled. 50 50 50 OFF 2.2 YES YES YES YES YES COLOR CONTROL Available only when the Advanced OSD function is enabled. 50 50 50 50 50 50 OFF 0 0 0 VIDEO1 DVD/HD1 VGA YES YES YES YES YES YES YES YES YES YES YES English-15 On-Screen Display (OSD) Main Menu SCREEN Sub Menu ASPECT MODE V-POSITION Sub Menu2 Sub Menu3 Explanation Selects aspect ratio of the displayed image. Press + or - to select. @@Press + to move up.

Press - to move down. @@Press + to move right. Press - to move left. Adjusts the vertical size of the image. Adjusts the horizontal size of the image. @@@@VGA and RGBHV input only. Adjusts the visual "noise" on the image. VGA and RGBHV input only. Press + to expand the width of the image on the right of the screen. Press - to narrow the width of the image on the left.

VGA and RGBHV input only. ON: UNDERSCAN is selectable in the ASPECT MODE menu. OFF: UNDERSCAN item is not selectable in the ASPECT MODE menu. Video signal input only. @@is shown.

OFF: No information is shown. Change the position of the menu between 1 and 6. Press + or - to adjust. @@OFF: The menu position does not shift. Adjusts the transparency level of the OSD.

Press + or - to adjust. Selects the input type when using 5BNC connectors. RGB: For RGB input. COMP.: For Component input (3BNC connectors). SCART1: For SCART input (4BNC connectors). SCART2: For SCART input (3BNC connectors and VIDEO1 input). SCART1, SCART2 available for Europe and World-Wide models only. Selects the input type when using a mini D-SUB connector. RGB: For RGB input.

SCART3: for SCART input. SCART3 available for Europe and World-Wide models only. @@@@VGA and RGBHV input only. @@1080B: Standard digital broadcasts. 1080A: Special digital broadcasts (ex. DTC100). Skips to next input if present input signal is not detected. This function is valid only for INPUT key on the display. Resets settings back to factory default values. @@OPTION1 OSD OFF YES ON 1 OFF YES YES YES OSD TRANSP.

@@@@VGA, RGBHV, and DVI input and Separate HV Sync. only. Selects Film mode. @@PLE: The brightness is decreased in order of Lock mode.

@@@@Cooling fan reduces the temperature of the display.

Adjusts the color of the side mask when a 4:3 image is displayed. Press + button, the bar will become lighter. Press - button, the bar will become darker.

@@@@@@Sets protocol setting for use with RS-232C connection. OFF: When NEC protocol is used (normal).

ON: When special protocol is used. Consult dealer for details of protocol. Chooses the closed caption setting. Chooses the brightness of the closed captions.

@@See page 24 for instructions. Sets the input mode and the sound volume when the power is turned on. @@MULTI to DVI: Fixed input mode. AUTO: Automatically searches for the input signal. PRIORITY: Sets which input has priority when using the AUTO setting. @@When this item is set to "ON", the front panel is disabled as soon as the on-screen menu goes off.

When "OFF", prevents the monitor from being controlled by wireless remote controller. The remote becomes ineffective disabled as soon as the on-screen menu goes off. To return to normal operation, press the "DISPLAY" button on the remote controller for 5 seconds. Change the loop out setting. Sets the Monitor ID to a number from 1-26 and or to ALL. Selects the mode of the monitor when using the RS-232C daisy chain. OFF LAST LAST Sets the date, time, and daylight saving region. Day & time must be set in order for the "TIMER" function to operate. AUTO AUTO1 OFF YES YES YES COOLING FAN SIDE MASK AUTO 3 NO YES PICTURE SIZE DVI MODE ON DVI-PC LOW YES NO NO PROTOCOL SET OFF YES CLOSED CAPTION U.S.

models only CAPTION CONT U.S. models only OPTION3 Available only when the Advanced OSD function is enabled. TIMER OFF NORMAL OFF YES YES NO NO YES YES YES INPUT DETECT INPUT VOLUME CONTROL LOCK OFF YES IR REMOTE ON YES LOOP OUT MONITOR ID RS232C CONTROL OFF ALL NORMAL YES YES YES English-17 On-Screen Display (OSD) Main Menu OPTION3 (continued) Sub Menu VIDEO WALL Sub Menu2 Sub Menu3 Explanation Sets the configuration of video wall. Default Reset DIVIDER POSITION DISP.

MODE SCREEN ASPECT MODE V-POSITION H-POSITION V-HEIGHT H-WIDTH AUTO PICTURE CLOCK PHASE CLOCK UNDER SCAN P.ON DELAY OPTION4 Available only when the Advanced OSD function is enabled. SUB PICTURE Sets the video wall. Sets the position of each display. Sets the mode of seam processing for each display.

Adjusts detail position. OFF YES SPLIT YES 0 0 0 0 OFF 0 0 OFF Adjusts the delay time between being in "standby" mode and entering "power on" mode. Automatically detects if there is an input signal for the sub screen. This feature is available only picture-in-picture mode. OFF YES YES YES YES YES YES YES YES YES SUB P. DETECT DISPLAY SUB P. RATE ZOOM NAV PIC FREEZE QUICK SWAP SELECT1 SELECT2 TEXT INSERT INPUT SUB P. DETECT DISPLAY SUB P. RATE Automatically detects sub screen. Sets the appearance of the sub screen.

Sets the transparency of the sub screen. Sets the position of the zoom navigation image. Sets the position of the captured still picture. Enables quick swapping of input. Sets which input terminals are used. AUTO NORMAL 100% BTM LFT S BY S1 OFF VIDEO1 VGA YES YES YES YES YES YES YES YES YES YES YES YES YES YES YES NO NO Allows text insertion within main screen. Sets the input of text image of the VGA, RGBHV, and DVI. Automatically detects sub screen. Sets the appearance of the sub screen. Sets the transparency of the sub screen.

ON: All menu items are shown for advanced users. OFF: Some of the advanced menu items are not shown. Select the language used by the OSD. The Color System that is used depends on the video format of the input signal. VIDEO input only.

Display information about the display: frequencies, polarities, etc. OFF VGA AUTO NORMAL 100% OFF ENGLISH AUTO ADVANCED OSM LANGUAGE COLOR SYSTEM SOURCE INFORMATION English-18 English Operation Picture Size Using Video Signals Select one of seven picture sizes manually.

While viewing videos or digital video discs, perform the following actions: 1. Press the SIZE button on the remote control. 2.

To switch the screen sizes, press the SIZE button again within 3 seconds. The available sizes are NORMAL, FULL, DYNAMIC, ZOOM, 2.35:1, 14:9, and UNDERSCAN. If a 720p, 1080i, or 1080p signal is displayed, the available sizes are FULL, 2.35:1, DYNAMIC, and UNDERSCAN. If displaying an enhanced split-screen, the available sizes are NORMAL and FULL. NORMAL (4:3) Images with a 4:3 (Normal) aspect ratio are displayed. To avoid image retention, use the 2.35:1 image size if black bars are displayed at the top and bottom of the screen showing the displayed image. 14:9 Image is displayed at a 14:9 aspect ratio.

Available for the following inputs: Video, Component, or RGB input (480I, 480P, 576I, 576P) 2.



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35:1 Image is expanded at a 2.35:1 ratio to fill the entire screen. The screen is filled vertically; however, some information will be lost on the left and right sides of the image. Available for the following inputs: Video, Component, or RGB input (480I, 480P, 576I, 576P, 720P, 1080I, 1080P) FULL Horizontally expands anamorphic signals to display the correct linearity. Normal (4:3) images are horizontally expanded to fill the entire screen. UNDERSCAN Standard televisions crop (Underscan) images. Utilize the UNDERSCAN function in the SCREEN menu to display the entire image. DYNAMIC Vertically and horizontally expands the picture but at different aspect ratios. NOTE: Depending on the type of component used, black borders or signal noise may appear near the screen edges while in UNDERSCAN mode.

Over a period of time, image ghosting, shadowing, or burn-in may result from continuous display of underscanned images. While in UNDERSCAN mode, the brightness may change if a Macrovision signal is input. ZOOM Vertically and horizontally expands the picture while maintaining the correct aspect ratio. NOTE: Do not display 4:3 content in NORMAL mode for extended periods of time to avoid image ghosting, shadowing, or burn-in. English-19 Operation - continued To expand a 4:3 image to fill the entire screen, switch to the widescreen mode.

While viewing videos or digital video discs, perform the following actions: 1. Press the SIZE button on the remote control. 2. To switch the screen sizes, press the SIZE button again within 3 seconds. The available sizes are NORMAL, FULL, and ZOOM.

If an enhanced split-screen is displayed, the available sizes are NORMAL and FULL. NORMAL (4:3 or SXGA 5:4) Images are displayed normally. Information: Supported resolutions: For further information on the display output of the various VESA signal standards supported by the unit, see pages 34 - 39. When 1360 dot x 768 line wide XGA signals with a vertical frequency of 60 Hz and a horizontal frequency of 47.7 kHz are input: FULL Horizontally expands anamorphic signals to display the correct linearity. Normal (4:3) images are horizontally expanded to fill the entire screen. 1. Select an appropriate setting for the RGB SELECT mode. 2. Refer to the Resolutions Supported section of Model Information on pages 34 - 39.

When using a VGA or SVGA signal, PICTURE SIZE in the OPTION 2 OSD menu should be set to OFF to select TRUE mode. English Picture Size Using Computer Signals TRUE The image is displayed at the native resolution. NOTE: Do not display 4:3 content in NORMAL and TRUE mode for extended periods of time to avoid image shadowing, ghosting, or burn-in. ZOOM Vertically and horizontally expands the picture, while maintaining the correct aspect ratio. English-20 Operation - continued Split Screen Mode To display multiple pictures on the screen, perform the following actions: 1. Press the desired SPLIT SCREEN function button on the remote (PIP, S BY S, SINGLE). Only certain RGB signals are supported. VGA Press the SWAP button to swap pictures. VGA A B SWAP B A SINGLE button S BY S button VGA A PIP button SINGLE button PIP button VGA A B B A S BY S button Press the SELECT/FREEZE button to change the active picture. VGA VIDEO1 is active.

A B Split Screen mode works according to the table below. Side by Side Mode Press the -, +, p or q buttons to change the picture size. + button VGA SELECT/FREEZE VIDEO1 VGA A VGA B VGA is active. + button VGA A B button p button + button A q button B button p button + button VGA A Side by Side2-L q button B Side by Side2-R q button Side by Side1 p button VGA VGA A B button A B button A Side by Side4-L B Side by Side4-R Side by Side3 Picture displayed on the Left / Sub screen Picture displayed on the Right / Main screen VIDEO1 VIDEO1 VIDEO2 S-VIDEO DVD/HD1 DVD/HD2 SCART1 SCART2 SCART3 VGA RGBHV DVI -- YES YES YES YES -- -- -- YES YES YES VIDEO2 YES -- YES YES YES -- -- -- YES YES YES S-VIDEO YES YES -- YES YES -- -- -- YES YES YES DVD/HD1 YES YES YES -- YES -- -- -- YES YES YES DVD/HD2 YES YES YES YES -- -- -- -- YES -- YES SCART1 -- -- -- -- -- -- -- -- -- YES SCART2 -- -- -- -- -- -- -- -- -- YES SCART3 -- -- -- -- -- -- -- -- -- YES VGA YES YES YES YES YES -- -- -- -- YES RGBHV YES YES YES YES -- -- -- -- YES DVI YES YES YES YES YES YES YES YES YES YES -- English-21 Operation - continued Picture-in-Picture Mode Press the + and - buttons to change the position of the subpicture. B VGA Displaying Input Signal 1.

To make the desired picture active, press the SELECT/ FREEZE button. 2. To change the active signal, press the VIDEO, DVD/HD, or RGB button. The input selection may also be changed by pressing the INPUT button on the front of the unit. + button VGA + button A button + button button button button VGA A VGA B Adjusting the OSD controls B B A + button A I.

To make the desired picture active, press the SELECT/ FREEZE button. 2. To display the main menu, press the MENU button. 3. Adjust the settings as desired. Press the p and q buttons to change the size of the subpicture. VGA A B VGA NOTE: Some OSD functions may not be available in SplitScreen mode. button button A B VGA button button B A VGA button button B A Press the SELECT/FREEZE button to change the active picture. VGA VIDEO1 VGA B A B A English-22 English Operation - continued Creating a Video Wall You can create a video wall consisting of up to 25 individual monitors with the built-in matrix display capability. Your Video Wall can have any of the following configurations: 2x2, 3x3, 4x4, 5x5, 5x1, 4x1, 3x1, 2x1, 1x2, 1x3, 1x4, or 1x5.

Connect the signal cables as shown: 1. Select VIDEO WALL in the OPTION 3 OSD menu, then press the SET button. 2. Select the desired video wall configuration in the DIVIDER field. 3. Select POSITION in the VIDEO WALL menu, then press the SET button. Appearing on the OSD is the current video wall configuration. Select the position of the monitor for the video wall. NOTE: Each individual monitor within the video wall must have its own set position. 2x2 NO.

1 NO. 2 NO. 10 NO. 4 NO. 3 NO.  
13 NO. 11 NO. 14 NO. 12 NO. 15 Video Signal RCA Phono Plug (IN) HD R VD R R IN R L OUT IN EXTERNAL CONTROL DVI L(MONO) AUDIO3 VGA R/Cr/Pr G/Y B/Cb/pb L(MONO) AUDIO2 Y Cr/Pr Cb/Pb DVD/HD1 L(MONO) AUDIO1 S-VIDEO IN IN/OUT VIDEO SPEAKER (S) RGBHV / DVD/HD2 AC IN BNC connector (OUT) to another display RGB/DVD/HD Signal OUT R HD VD BNC connector (IN) R R IN R L IN EXTERNAL CONTROL DVI L(MONO) AUDIO3 VGA R/Cr/Pr G/Y B/Cb/pb L(MONO) AUDIO2 Y Cr/Pr Cb/Pb DVD/HD1 L(MONO) AUDIO1 S-VIDEO IN IN/OUT VIDEO SPEAKER (S) RGBHV / DVD/HD2 AC IN VGA connector (OUT) to another display 3x3 NO.



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7 NO. 8 NO. 9 NOTE: 1. The VIDEO 1 and VGA terminals may be used either for INPUT or OUTPUT. Do not connect an OUTPUT signal from another unit when LOOP OUT in the OPTION 3 OSD is set to ON, as it may damage the other unit due to an extraordinary load. 2. While signals are input to the VGA terminal, LOOP OUT should not be turned ON. Information: Set the LOOP OUT in OPTION3 to ON to loop signals out to another plasma display. · Set the VIDEO WALL options properly when creating a video wall. · Use the appropriate (length and efficiency) BNC cable to connect monitors.

· If the image quality is poor, do not use the monitor out terminal to link to another monitor. Use a commercially available distribution amplifier to connect the split signal to the appropriate monitor INPUT terminals. · For a resolution of 1024x768 at 60 Hz (or lower), the maximum recommended size for a viewing wall is 4 displays. · A distribution amplifier is highly recommended when setting up a 3 x 3 (or greater) video wall. · When looping from plasma to plasma, an appropriate (length and efficiency) 15-pin male mini D-Sub - 5BNC conversion cable is required. 4x4 NO. 16 NO. 17 NO. 18 NO. 19 NO.

20 NO. 21 NO. 22 NO. 23 NO. 24 NO.

25 NO. 26 NO. 27 NO. 28 NO. 29 NO.

30 NO. 31 5x5 NO. 32 NO. 33 NO. 34 NO. 35 NO. 36 NO. 37 NO. 38 NO. 39 NO.

40 NO. 41 NO. 42 NO. 43 NO. 44 NO. 45 NO. 46 NO. 47 NO. 48 NO. 49 NO.

50 NO. 51 NO. 52 NO. 53 NO. 54 NO.

55 NO. 56 5x1 NO. 1 NO. 2 NO. 3 NO.

4 NO. 5 1x5 NO. 1 NO. 2 NO. 3 NO. 4 NO. 5 1x4 NO. 1 NO. 2 NO. 3 NO.

4 1x3 NO. 1 NO. 2 NO. 3 1x2 NO. 1 NO. 2 4x1 NO. 1 NO. 2 NO. 3 NO. 4 3x1 NO.

1 NO. 2 NO. 3 2x1 NO. 1 NO. 2 Video Wall Configurations English-23 Operation - continued USING THE TIMER Turn the "ADVANCED OSD" to "ON" in the MAIN MENU to access the TIMER feature in OPTION3.

Using an asterisk (\*) alone in the DAY field means that the programmed schedule will run every day. Using the asterisk (\*) and the name of the day means the programmed schedule will run only on that day. For example "\*FRI" means that the schedule will run every Friday. A hyphen (-) in either the ON or OFF fields means that a time is not set. In order to use the Program Timer, at least either an ON or OFF time has to be set.

A hyphen (-) in the INPUT or that the monitor will use the previously used display mode for that particular schedule. If a Repeat Timer sequence is selected in the FUNC. field, the Input field will show a hyphen (-). English Using special characters in the PROGRAM TIMER setting. To use the TIMER feature the first set the internal clock and the day of the week. The display can also be programmed to turn on or off at preset times, and which input the display will use at those times. The Program Timer which turns on or off the power at the day of the week, time and the input mode you want, or Repeat Timer which displays two input modes alternately can each be set also. In the "OPTION3" OSD menu, select "TIMER", then press the SET button. The "TIMER" screen appears. PRESENT TIME This sets the day of the week and present time.

Example: Setting "WEDNESDAY", "22:05" In the "TIMER" menu, select "PRESENT TIME", then press the SET button. The "PRESENT TIME" screen appears. Set the items. Turn DAYLIGHT SAVING TIME on if daylight savings is observed. Select the day of the week. Set the clock using the 24-hour (HH/MM) format. To accept PRESENT TIME settings, highlight "SET"\* in the PRESENT TIME OSD menu, then press the SET button to store the settings. \*

If you press the EXIT button instead of the SET button, Timer settings will not be accepted. Setting the PROGRAM TIMER using multiple inputs Set the INPUT field to "MULTI", then press the SET button. The "MULTI SCREEN SETTING" will appear on the screen.

Use the p and q buttons to select "MULTI MODE", then use the + and - buttons to choose from "S BY S1, 2R, or 2L" and "PICTURE IN PICTURE MODE (BOTTOM LEFT~TOP LEFT)". Use the p and q buttons to select "MAIN"/"SUB" and "LEFT"/"RIGHT", then use the + and - buttons to choose from "VIDEO1 to "DVI". To set "REP.1~3" as the FUNC. Set the FUNC.

field to "REP.1", "REP.2" or "REP.3", then press the SET button. The "REPEAT TIMER" menu will appear on the screen.

Use the - and + buttons to choose from "SINGLE", "S BY S1, 2R or 2L" and "PICTURE IN PICTURE MODE (BTM LFT to TOP LFT)", then adjust the items. PROGRAM TIMER The PROGRAM TIMER feature allows a series of scheduled operation times to be set. The display can be programmed to run on a particular day and time while using a desired input source. Under the Function setting (FUNC.) either a Screen Saver setting (ORBITER, INVERSE, WHITE) or a REPEAT TIMER program can be set for the monitor to use during the scheduled power-on time. NOTE: When a REPEAT TIMER program is selected as the Function setting, the Program Timer's Input option is not available. The input used will use the input that is programmed for the Repeat Timer program.

Up to 10 individual PROGRAM TIMER schedules can be set. When schedules are set to perform functions at the same time, the schedule with the lower number has priority. For example schedule #1 has priority over schedule #10.

When schedules overlap, each action is sequentially executed. English-24 Operation - continued REPEAT TIMER The Repeat Timer allows the display to alternate between inputs at user-determined intervals. For example the display can be programmed to show the signal from "VIDEO1" for 10 minutes and then switch to showing the signal from the DVI input for 10 minutes. To set the Repeat Timer select "REPEAT" in the Timer menu, then press the SET button. To enter the REPEAT TIMER OSD screen. Then make the desired settings. STATE Settings There are 4 possible state settings to use. When all four STATES are set to "ON, the repeat timer schedules will operate consecutively (State1, State2, State3, State4, State1, State2, State3...

). When a STATE setting is set to OFF, i.e. STATE1-ON, STATE2-ON, STATE3-OFF, STATE4-ON, the repeat timer schedules use all but STATE3 (State1, State2, State4, State1, State2...

). Repeat Timer activates when the OSD menu is exited. For SINGLE display configurations WORK TIME: Set the time duration of the schedule. Time range is from 1 minute to 24 hours.

INPUT MODE: Choose the signal that will be used. MULTI settings MODE: Select the input mode to be displayed as "SINGLE", "S BY S1, 2R or 2L" or "PICTURE IN PICTURE MODE (BTM LFT~TOP LFT)". WORK TIME: Set the time duration of the schedule. Time range is from 1 minute to 24 hours.

INPUT MODE: Choose the signal that will be used. Select "MAIN" or "SUB" for "PICTURE IN PICTURE MODE (BTM LFT~TOP LFT)" and "LEFT" or "RIGHT" for "S BY S1, 2R or 2L".



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Only one signal is selected for "SINGLE". English-25 RS-232C MONITOR ID and RS-232C CONTROL Up to 26 individual monitors can be controlled through a daisy chain via RS-232C connection. English This Plasma monitor can be controlled via personal computer using an RS-232C connection. Functions that can be controlled via RS-232C: · Powering ON or OFF · Switching input signals NOTE: If your PC (IBM or IBM compatible) is equipped only with a 25-pin serial port connector, a 25-pin serial port adapter is required.

Contact your dealer for details. NOTE: In order to function, the RS-232C OUT terminal can only be connected to another monitor of the same model. Do not connect to other types of equipment. 1. Connect PC to the monitor. Connect a PC's RS-232C control output to the monitor's RS-232C input. You can then connect the RS-232C output from this monitor to another monitor's RS-232C input. Up to 26 monitors can be connected using RS-232C. 2. Set Monitor ID and RS-232C Control mode.

For proper operation, the Monitor ID should be set in the OSD menu of each monitor that is in the chain. The Monitor ID can be set under the "OPTION3" menu in the OSD. The Monitor ID number can be set within a range from 1 to 26 or set to "ALL". No two monitors should share the same Monitor ID number.

It is recommended to number each monitor in a daisy chain sequentially from 1.

The first monitor in the daisy chain is designated as the primary monitor. Subsequent monitors with the chain are secondary monitors. In the "OPTION3" menu on the first monitor in the RS-232C daisy chain set the "RS232C CONTROL" to "NORMAL". Set the "RS232C CONTROL" to "2ND" on all other monitors. This monitor uses RXD, TXD and GND lines for RS-232C control.

The reverse type cable (null modem cable) should be used for RS-232C control. EXIT INPUT MUTE EXIT INPUT MUTE OUT IN RS-232C (IN) PC (Out) RS-232C Cable RS-232C (OUT) RS-232C (IN) OUT IN RS-232C (OUT) RS-232C Cable English-26 RS-232C - continued The following control sequence is used for a single monitor When using the following control commands, all of the daisy-chained monitors can be controlled at the same time from the primary monitor. However, reply and status commands will only pertain to the primary monitor, and not to the secondary monitors. 1) Interface PROTOCOL BAUD RATE DATA LENGTH PARITY BIT STOP BIT FLOW CONTROL RS-232C 9600 [bps] 8 [bits] NONE 1 [bit] NONE 2) Control command diagram The command is structured by the address code, function code, data code and end code. The length of the command is different for each function. Address Code HEX ASCII 30h 30h '0' '0' Function Code Function Function Data Code Data Data End Code 0Dh [Address code] 30h 30h (In ASCII code, '0' '0') fixed. [Function code] A code of each fixed control move. [Data code] [End code] A code of each fixed control data (number) and not always indicated. 0Dh (In ASCII code, ' ') fixed. To control multiple monitors that are daisy-chained together please use the extended control command.

English-27 RS-232C - continued 3) Control sequence 1) The command from a computer to the Plasma monitor will take 400ms. 2) The Plasma monitor will send a return command 400ms\* after it has received an encode. If the command is not received correctly, the Plasma monitor will not send the return command. 3) The personal computer checks the command and confirms if the command which has been sent has been executed or not. 4) This Plasma monitor sends various codes other than the return code. When sending a control sequence via RS-232C, other codes from personal computers will be ignored. \*The sending time of the return command may be delayed depending on the monitor's current activity (changing of the input signal, etc.). [Example] Turn the power ON. (' ' is for ASCII code) English Sending commands from the PC etc.

30 30 21 0D '0' '0' '! ' ' Status code from Plasma monitor Meaning Command for POWER ON 30 30 21 0D '0' '0' '! ' ' Command received (Command echo back) 4) Operation commands Operation commands execute the basic operation setting of this Plasma monitor. It may not operate when changing the signal: Operation POWER ON POWER OFF INPUT VIDEO1 INPUT VIDEO2 INPUT S-VIDEO INPUT DVD/HD1 INPUT DVD/HD2 INPUT SCART3 INPUT VGA INPUT RGBHV INPUT DVI ASCII ! " \_v1 \_v4 \_v3 \_v2 \_v5 \_v6 \_r2 \_r3 \_r1 HEX 21h 22h 5Fh 76h 31h 5Fh 76h 34h 5Fh 76h 33h 5Fh 76h 32h 5Fh 76h 35h 5Fh 76h 36h 5Fh 72h 32h 5Fh 72h 33h 5Fh 72h 31h · POWER OFF command should not be used less than 1 minute after the power is turned on. · POWER ON command should not be used less than 1 minute after the power is turned off. English-28 RS-232C - continued 5) Read command Host computer sends the command without Data-code to monitor. After receiving this command, the monitor returns the command with Data-code of current status to host computer.

<ex> When the Host computer checks the Power status of monitor, the status of monitor is powered-on. Command from computer 30 30 76 50 0D 0"0"v"P"[enter] Command from Monitor Detail of command Ask about the power status of monitor. 30 30 76 50 31 0D 0"0"v"P"1"[enter] Structure of the Read-command ASCII Function POWER ON POWER OFF INPUT VIDEO1 INPUT VIDEO2 INPUT S-VIDEO INPUT DVD/HD1 INPUT DVD/HD2 INPUT SCART3 INPUT VGA INPUT RGBHV INPUT DVI Picture Mode BRIGHT Picture Mode STANDARD Picture Mode CINEMA1 Picture Mode CINEMA2 Picture Mode DEFAULT vP vP vI vI vI vI vI vI vI vI vM vM vM vM vM Data 1 0 v1 v4 v3 v2 v5 v6 r2 r3 r1 p1 p2 p3 p4 p5 Monitor is powered-on. HEX Function Data 76h 50h 76h 50h 76h 49h 76h 49h 76h 49h 76h 49h 76h 49h 76h 49h 76h 49h 76h 49h 76h 49h 76h 49h 76h 49h 76h 4Dh 76h 4Dh 76h 4Dh 76h 4Dh 76h 4Dh 31h 30h 76h 31h 76h 34h 76h 33h 76h 32h 76h 35h 76h 36h 72h 32h 72h 33h 72h 31h 70h 31h 70h 32h 70h 33h 70h 34h 70h 35h English-29

Troubleshooting No picture · The signal cable should be properly connected to the display card/computer. · The display card should be properly seated in its slot.

· Front Power Switch and computer power switch should be in the ON position. · Check to make sure that a supported mode has been selected on the display card or system being used. (Please consult display card or system manual to change graphics mode.) · Check the monitor and your display card with respect to compatibility and recommended settings. · Check the signal cable connector for bent or pushed-in pins. Display image is not sized properly · Use the OSD screen controls to increase or decrease the clock total.



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