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You can read the recommendations in the user guide, the technical guide or the installation guide for NEC LCD4020. You'll find the answers to all your questions on the NEC LCD4020 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NEC LCD4020
User guide NEC LCD4020
Operating instructions NEC LCD4020
Instructions for use NEC LCD4020
Instruction manual NEC LCD4020

NEC

User's Manual



MultiSync LCD4020
MultiSync LCD4620
MultiSync LCD5220



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<http://yourpdfguides.com/dref/2311173>

Manual abstract:

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English-3 Contents

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. English-4 Installation

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.... English-5 Parts Name and Functions .

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. English-8 Control Panel

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English-8 Terminal Panel

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.. English-9 Wireless Remote Control ...

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..English-12 Connections

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

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

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

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..... English-14 Wiring Diagram ...

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.....

..... English-14 Connecting a Personal Computer ..

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.....
English-15 Connect the LCD Monitor to a Personal Computer

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

.. English-15 Connecting to a Macintosh Computer

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

..... English-16 Connect the LCD Monitor to Macintosh ..

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

..... English-16 Connecting with Digital Interface Equipment ...

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

... English-17 Connect the LCD Monitor to a Computer with a Digital Output

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

..... *English-17 Connecting a DVD Player with component out ...*

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

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

.....
.....

.... *English-18 Connect the LCD Monitor to a DVD Player .*

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

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.....
.....

.....

... *English-18 Connecting a DVD Player with HDMI out ..*

.....
.....

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

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

.....

.... *English-19 Connect the LCD Monitor to a DVD Player .*

.....
.....

.....
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.....

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.....
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.....

..... *English-19 Connecting a DVD Player with SCART out ..*

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.....
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.....

..... *English-19 Connect the LCD Monitor to a DVD Player*

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.....

English-19 Connecting to a Stereo Amplifier

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.... *English-20 Connect the LCD Monitor to a Stereo Amplifier .*

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.....

. *English-20 Basic Operation*

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English-21 Power ON and OFF Modes

.....
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.....

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.....
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.....

.. English-21 Power Indicator ...

.....
.....

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.....

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.....

.. English-22 Using Power Management

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

English-22 Selecting a video source

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.....
. English-22 Picture Size

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.....
..... English-22 Picture Mode ...

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. English-22 Information OSD

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English-22 OSD (On-Screen-Display) Controls

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..... English-23 PICTURE .

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..... English-24 ADJUST .

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English-25 PIP

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English-26 OSD

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..... English-26 MULTI DISPLAY ..

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..... English-27 DISPLAY PROTECTION ...

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... English-27 ADVANCED OPTION

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.... English-28 Connecting to a TV (For U.S.)

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.... English-30 Connecting to a TV (For Europe)

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..... *English-32 Controlling the LCD monitor via RS-232C Remote Control ...*

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.....

English-36 Features

.....
.....
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English-37 Troubleshooting

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English-38 Specifications - LCD4020

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.... English-39 Specifications - LCD4620 .

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... English-40 Specifications - LCD5220 ..

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.. English-41 Pin Assignment

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.. English-42 Manufacturer's Recycling and Energy Information ..

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..... English-43 www.necdisplaysolutions.

com This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions. (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. U.S.

Responsible Party: Address: Tel. No.: Type of Product: Equipment Classification: Model: NEC Display Solutions of America, Inc. 500 Park Boulevard, Suite 1100 Itasca, Illinois 60143 (630) 467-3000 Computer Monitor Class B Peripheral MultiSync LCD4020 (L406T6) MultiSync LCD4620 (L466T7) MultiSync LCD5220 (L527TE) We hereby declare that the equipment specified above conforms to the technical standards as specified in the FCC Rules. Windows is a registered trademark of Microsoft Corporation.

NEC is a registered trademark of NEC Corporation. OmniColor is a registered trademark of NEC Display Solutions Europe GmbH in the countries of EU and Switzerland. All other brands and product names are trademarks or registered trademarks of their respective owners. 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. FCC Information 1. Use the attached specified cables with the MultiSync LCD4020 (L406T6)/MultiSync LCD4620 (L466T7)/MultiSync LCD5220 (L527TE) colour 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 the supplied shielded video signal cable, Mini D-SUB 15 pin to Mini D-SUB 15 pin. 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 in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult your dealer or an experienced radio/TV technician for help.

If necessary, the user should contact the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet, prepared by the Federal Communications Commission, helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.

C., 20402, Stock No. 004-000-00345-4. The product you purchased may not have this feature. LCD4020-BK-AV, LCD4020-2-AV, LCD4020-BK-AVT, LCD4020-2-AVT LCD4620-BK-AV, LCD4620-2-AV, LCD4620-BK-AVT, LCD4620-2-AVT LCD5220-BK-AV, LCD5220-BK-AVT only HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

English-1 English DECLARATION OF CONFORMITY Important Information WARNING TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. ALSO, 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 TOize the maximum ergonomic benefits, we recommend the following: · · · · Use the preset Size and Position controls with standard signals. Use the preset Color Setting. Use non-interlaced signals. 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. · · · · · · · · · · The lamps in this product contain mercury. Please dispose according to state, local or federal law. Do not bend, crimp or otherwise damage the power cord.

If glass is broken, handle with care. Do not cover vent on monitor. Do not use monitor in high temperature, humid, dusty, or oily areas. If monitor or glass is broken, do not come in contact with the liquid crystal and handle with care. Allow adequate ventilation around the monitor, so that heat can properly dissipate. Do not block ventilated openings or place the monitor near a radiator or other heat sources. Do not put anything on top of the monitor.



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The power cable connector is the primary means of detaching the system from the power supply. The monitor should be installed close to a power outlet, which is easily accessible. Handle with care when transporting.

Save packaging for transporting. Please clean the holes of back cabinet to reject dirt and dust at least once a year because of set reliability. If using the cooling fan continuously, it's recommended to wipe holes a minimum of once a month. Cleaning the LCD Panel When the liquid crystal panel is stained with dust or dirt, please wipe with soft cloth gently. Please do not rub the LCD panel with hard material.

Please do not apply pressure to the LCD surface. Please do not use OA cleaner it will cause deterioration or discolor on the LCD surface. 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. 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, 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. English-3 English Safety Precautions, Maintenance & Recommended Use Contents Your new MultiSync monitor box* should contain the following: LCD monitor Power Cord*1 Video Signal Cable User's Manual Wireless Remote Control and AA Batteries Cable Cover Clamp x 3 Screw (M4 x 10) x 9 CD-ROM Thumbscrew for stand x 2 Video Signal Cable (Mini D-SUB 15 pin to Mini D-SUB 15 pin) Screw (M4 x 10) x 9 Power Cord*1 Thumbscrew for stand x 2 Clamp x 3 User's Manual CD-ROM Cable cover User's Manual Wireless Remote Control and AA Batteries *1 Type and number of power cords included will depend on the where the LCD monitor is to be shipped. When more than one power cord is included, 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. ** Depending on where the LCD is sold, the stand may or may not be included with some models.

Remember to save your original box and packing material to transport or ship the monitor. English-4 This device cannot be used or installed without the Tabletop Stand or other mounting accessory for support. For proper installation it is strongly recommended to use a trained, NEC authorized service person. Failure to follow NEC standard mounting procedures could result in damage to the equipment or injury to the user or installer. Product warranty does not cover damage caused by improper installation. Failure to follow these recommendations could result in voiding the warranty. 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 LCD 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. Mounting DO NOT mount the monitor yourself.

Please ask dealer. For proper installation it is strongly recommended to use a trained, qualified technician. Please inspect the location where the unit is to be mounted. Mounting on wall or ceiling is the customer's responsibility. Not all walls or ceilings are capable of supporting the weight of the unit.

Product warranty does not cover damage caused by improper installation, remodeling, or natural disasters. Failure to comply with these recommendations could result in voiding the warranty. DO NOT block ventilated openings with mounting accessories or other accessories. For NEC Qualified Personnel: To insure safe installation, use two or more brackets to mount the unit. Mount the unit to at least two points on the installation location.

LED Indicator 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 a recessed area, as in a wall, leave at least 4 inches (10cm) of space between the monitor and the wall for proper ventilation. Allow adequate ventilation or provide air conditioning around the monitor, so that heat can properly dissipate away from the unit and mounting apparatus. 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 VESAcompatible (FDMLv1) mounting method. NEC strongly recommends Unit Mounting using size M6 screws Bracket (10 mm (LCD4020/ LCD4620) or 12 mm (LCD5220) + thickness of Screw bracket in length). If using 10 mm Thickness or screws longer than 10 mm 12 mm of Bracket (LCD4020/LCD4620) or 12 mm (LCD5220), check Screw length should the depth of the hole.

equal depth of hole (10mm (Recommended Fasten (LCD4020/LCD4620) or Force: 470 - 635N-cm) 12mm (LCD5220)) + the NEC recommends mounting thickness of mounting bracket. interfaces that comply with UL1678 standard in North America. Prior to mounting, inspect the installation location to insure that it is strong enough to support the weight of the unit so that the unit will be safe from harm. Refer to the instructions included with the mounting equipment for detailed information. 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.



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DO NOT use wood screws or anchor screws for mounting. DO NOT mount the unit to trim or to hanging fixtures.

... 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. ·

English-5 English Installation Attaching Mounting Accessories The display is designed for use with the VESA mounting system. 2.

Installing and removing optional table top stand CAUTION: Installing and removing the stand must be done by four or more people (LCD5220), by two or more people (LCD4020/LCD4620). To install, follow those instructions included with the stand or mounting apparatus. Use only those devices recommended by the manufacturer. Handle with care when mounting LCD monitor stand and avoid pinching your fingers. Optional table top stand 1.

Attach Mounting Accessories Be careful to avoid tipping monitor when attaching accessories. LCD4020/LCD4620 Using 8 holes Table Protective Sheet Using 6 holes NOTE: Place stand onto monitor so that the long end of the feet are in the front. LCD5220 VESA Mounting Interface 3. Ventilation Requirements When mounting in an enclosed space or recessed area, leave adequate room between the monitor and the enclosure to allow heat to disperse, as shown below. Figure 1 Mounting accessories can be attached with the monitor in the face down position. To avoid damaging the screen face, place the protective sheet on the table underneath the LCD. The protective sheet was wrapped around the LCD in the original packaging. Make sure there is nothing on the table that can damage the monitor. When using mounting accessories other than NEC compliant and approved, they must comply with the VESA compatible mounting method. English-6 4.

Prevent Tipping When using the display with the Tabletop Stand fasten the LCD to a wall using a cord or chain that can support the weight of the monitor in order to prevent the monitor from falling. Fasten the cord or chain to the monitor using the provided clamp and screw. LCD4020: 278 mm LCD4620: 210 mm LCD5220: 400 mm Screw Holes Cord or chain Clamp Screw Before attaching the LCD monitor to the wall, make sure that the wall can support the weight of the monitor. Be sure to remove the cord or chain from the wall before moving the LCD. English-7 English Parts Name and Functions Control Panel ON LCD4020/LCD4620 LCD5220 OFF 1 POWER button () Switches the power on/off. See also page 21. 7 DOWN () button Activates the OSD menu when the OSD menu is turned-off. Acts as button to move the highlighted area down to select adjustment items within OSD menu. 2 MUTE button (LCD5220 only) Switches the audio mute ON/OFF. 8 EXIT button Activates the OSD menu when the OSD menu is turned-off.

Acts as EXIT button within the OSD to move to previous menu. 3 INPUT button Acts as SET button within OSD menu. (Toggle switches between [DVI], [VGA], [RGB/HV], [HDMI], [DVD/HD]*, [VIDEO]*, [S-VIDEO]* or [TV]*). [S-VIDEO] is enabled by selecting the "SEPARATE" mode in the OSD or by having the "S-VIDEO" cable connected with the "S-VIDEO" signal present and selecting "PRIORITY" MODE. See page 28.*

9 Remote control sensor and Power Indicator Receives the signal from the remote control (when using the wireless remote control). See also page 11. Glows green when the LCD monitor is in active mode. Glows red when the LCD is in POWER OFF (ECO standby) mode. Glows amber when the LCD is in POWER OFF (standby) mode.*

*Blinks amber when the monitor is in Power Save Mode. Green and Amber blink alternately while in Power Standby mode with the "SCHEDULE SETTINGS" function enabled. When a component failure is detected within the monitor, the indicator will blink red. * If "OFF" is selected in "POWER INDICATOR" (see page 22), LED will not light when the LCD monitor is in active mode. 4 PLUS (+) button Acts as (+) button to increase the adjustment with OSD menu.*

Increases the audio output level when the OSD menu is turned off. 5 MINUS (-) button Acts as (-) button to decrease the adjustment with OSD menu. Decreases the audio output level when the OSD menu is turned off*. 10 Main Power Switch On/Off switch to turn main power ON/OFF. Control Key Lock Mode This control completely locks out access to all Control Key functions.*

*To activate the control key lock function, press both and and hold down simultaneously for more than 3 seconds. To resume user mode, press both and and hold simultaneously for more than 3 seconds. *: The product you purchased may not have this feature. 6 UP () button Activates the OSD menu when the OSD menu is turned-off. Acts as button to move the highlighted area up to select adjustment items within OSD menu. English-8 Terminal Panel English*

LCD4020/LCD4620 LCD5220 Out In 1 AC IN connector Connects with the supplied power cord. 9 AUDIO OUT To output the audio signal from the AUDIO IN 1, 2, 3, HDMI, and TV jack to an external device (stereo receiver, amplifier, etc.). 10 VIDEO INPUT/OUTPUT Connector* 2 DVI IN (DVI-D) To input digital RGB signals from a computer or HDTV device having a digital RGB output. * This connector does not support analog input.*

3 VGA IN (mini D-Sub 15 pin) To input analog RGB signals from a personal computer or from other RGB equipment. 4 RGB/HV IN [R, G, B, H, V] (BNC) To input analog RGB signals or signals from other RGB equipment. This is also to connect equipment such as a DVD player, HDTV device and Set-Top-Box. A Sync-on-Green signal can be connected to the G connector. VIDEO IN connector (BNC and RCA): To input a composite video signal.

BNC and RCA connectors are not available at the same time (Use only one input). VIDEO OUT connector (BNC): To output the composite video signal from the VIDEO IN connector. S-VIDEO IN connector (Mini DIN 4 pin): To input the S-video (Y/C separate signal). See page 28, S-VIDEO MODE SETTING. 11 EXTERNAL CONTROL (D-Sub 9 pin) 5 RGB/HV OUT (BNC) To outputs the signal from the RGB/HV IN connector to an input on a separate device.

IN connector: Connect RS-232C input from external equipment such as a PC in order to control RS-232C functions. Out connector: Connect RS-232C output. To connect multiple MultiSync monitors via RS-232C daisy Chain. 12 EXTERNAL SPEAKER TERMINAL 6 HDMI connector* To input digital HDMI signals. To output the audio signal from AUDIO 1, 2, 3, HDMI and TV jack. Note: This speaker terminal is for 15W + 15W (8 ohm) speaker. 13 RF IN* (For U.S.) 7 DVD/HD connector* (RCA) Connecting equipment such as a DVD player, HDTV device, or Set-Top-Box. TV signal input.*

8 AUDIO IN 1, 2, 3 To input audio signal from external equipment such as a computer, VCR or DVD player.*



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14 S/PDIF OUTPUT* (For U.S.) Optical digital audio out. 15 Antenna Input* (For Europe) Connects to antenna or to TV signal. *: The product you purchased may not have this feature. English-9 Wireless Remote Control 7 KEYPAD Press buttons to set and change passwords, change channel and set REMOTE ID. 8 ENT button* Sets channels. 9 DISPLAY button Turns on/off the information OSD. See page 22.

10 MENU button Turns on/off the menu mode. 11 AUTO SETUP button Enters auto setup menu. See page 24. 12 EXIT button Returns to previous menu within OSD menu. 13 UP/DOWN button to move the highlighted area up or Acts as down to select adjustment items within OSD menu. Small screen which adjusted "PIP" mode moves up or down. 14 MINUS/PLUS (+/-) button Increases or decreases the adjustment level within OSD menu settings. Small screen which adjusted "PIP" mode moves left or right. 15 SET button Makes selection. 1 POWER button Switches the power on/off.

16 VOLUME UP/DOWN button* Increases or decreases audio output level. 2 INPUT button Selects input signal, [DVI], [VGA], [RGB/HV], [HDMI]*, [DVD/HD]*, [VIDEO]*, [TV]* or [S-VIDEO]*. [S-VIDEO] is enabled by selecting the "SEPARATE" mode in the OSD or by having the "S-VIDEO" cable connected with an "S-VIDEO" signal present and selecting "PRIORITY" MODE in the S-VIDEO OSD menu. See page 28. 17 CH +/- button* Moves channel up or down. 18 CH RTN button* Returns to previous channel. 19 MUTE button Turns on/off mute function. 3 PICTURE MODE button Selects picture mode, [HIGHBRIGHT], [STANDARD], [sRGB], [CINEMA]*. See page 22. HIGHBRIGHT: for moving images such as DVD STANDARD: for images sRGB: for text based images CINEMA: for movies.

STILL button ON/OFF button: Activates/deactivates still picture mode. STILL CAPTURE button: Captures still picture. PIP (Picture In Picture) button ON/OFF button: Toggle switches between PIP, POP, sideby-side (aspect) and side-by-side (full). See page 26. INPUT button: Selects the "picture in picture" input signal. CHANGE button: Replaces to the main picture and sub picture. Sub picture DVI VGA RGB/HV HDMI DVD/HD VIDEO TV for U.S. TV for Europe DVI VGA RGB/HV HDMI DVD/HD VIDEO TV for U.S.

TV for Europe - 4 SIZE button Selects picture size, [FULL], [NORMAL], [WIDE]* and [ZOOM]. See page 22. 5 SOUND button* Main picture Artificial surround sound. - - - 6 AUDIO INPUT button* Selects audio input source [IN1], [IN2], [IN3], [HDMI], [TV]*. *: The product you purchased may not have this feature.

English-10 REMOTE ID button Activates REMOTE ID function. MTS button* Multichannel television sound. SLEEP button Sets power off timer. GUIDE button* Enters on screen program guide (For U.S.

). button* Activates closed captioning (For U.S.). Activates Teletext (For Europe). *: The product you purchased may not have this feature. Point the top of the remote control toward the LCD monitor's remote sensor during button operation. Use the remote control within a distance of about 7 m (23 ft.) from the front of the LCD monitor's remote control sensor or at a horizontal and vertical angle of within 30° within a distance of about 3.5 m (10 ft.

) Caution: Important, the remote control system may not function when direct sunlight or strong illumination strikes the remote control sensor of the LCD monitor, or when there is an object in the path. Handling the remote control · Do not subject to strong shock. Do not allow water or other liquid to splash the remote control. If the remote control gets wet, wipe it dry immediately. Avoid exposure to heat and steam. Other than to install the batteries, do not open the remote control. · English-11 English Operating Range for the Remote Control Setup 1. Determine the installation location CAUTION: Installing your LCD display must be done by a qualified technician. Contact your dealer for more information. CAUTION: MOVING OR INSTALLING THE LCD MONITOR MUST BE DONE BY FOUR OR MORE PEOPLE (LCD5220), BY TWO OR MORE PEOPLE (LCD4020/LCD4620).

Failure to follow this caution may result in injury if the LCD monitor falls. CAUTION: Do not mount or operate the display upside down, face up, or face down. CAUTION: This LCD has a temperature sensor and cooling fan. If the LCD becomes too hot, the cooling fan will turn on automatically. If the LCD becomes overheated while the cooling fan is running, a "Caution" warning will appear.

If the "Caution" warning appears, discontinue use and allow the unit to cool. Using the cooling fan will reduce the likelihood of early circuit failure and may help reduce image degradation and "Image Persistence". If the LCD is used in an enclosed area or if the LCD panel is covered with a protective screen, please check the inside temperature of the monitor by using the "HEAT STATUS" control in the OSD (see page 27). If the temperature is higher than the normal operating temperature, please turn the cooling fan to ON within the FAN CONTROL menu within the OSD (see page 27). IMPORTANT: Lay the protective sheet, which was wrapped around the LCD monitor when it was packaged, beneath the LCD monitor so as not to scratch the panel.

NOTE: If you do not intend to use the Remote Control for a long period of time, remove the batteries. 3. Connect external equipment (See pages 14-20) · To protect the external equipment; turn off the main power before making connections. Refer to your equipment user manual for further information. 4. Connect the supplied power cord · The equipment should be installed close to an easily accessible power outlet. Please fasten power cord to the LCD monitor by attaching the screw and clamp. Fully insert the prongs into the power outlet socket. A loose connection may cause image degradation. NOTE: Please refer to the "Safety Precautions and Maintenance" section of this manual for proper selection of AC power cord.

LCD4020/4620 Screw Clamp 2. Install the remote control batteries The remote control is powered by two 1.5V AA batteries. To install or replace batteries: Screw hole for clamp LCD5220 Screw Clamp 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. 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.



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English-12 · · 5. Attach the cable cover [For LCD4020] · · Remove the six screws (Figure 4). Use six of the M4 x 10 screws (included) to attach the cable cover (Figure 5). [For LCD5220] · · Use six of the M4 x 10 screws (included) to attach the cable cover (Figure 9).

Figure 4 Figure 8 Figure 9 Figure 5 [For LCD4620] · · Remove the three screws (Figure 6). Use six of the M4 x 10 screws (included) to attach the cable cover (Figure 7). 6. Switch on the power of all the attached external equipment When connected with a computer, switch on the power of the computer first. Figure 6 7. Operate the attached external equipment Display the signal from the desired input source. 8. Adjust the sound* Make volume adjustments when required. Figure 7 9. Adjust the screen (See pages 24 and 25) Make adjustments of the screen display position when necessary.

10. Adjust the image (See page 24) Make adjustments such as brightness or contrast when required. 11. Recommended Adjustments To reduce the risk of the "Image Persistence", please adjust the following items based on the application being used: "SCREEN SAVER", "SIDE BORDER COLOR" (See page 27) "DATE & TIME", "SCHEDULE SETTINGS" (See page 25). It is recommended that the "FAN CONTROL" setting (See page 27) be turned to ON also. *: The product you purchased may not have this feature. English-13 English · Remove the six screws (Figure 8). Connections Before making connections: * * First turn off the power of all the attached equipment and make connections. Refer to the user manual included with each separate piece of equipment. Wiring Diagram DVD player with HDMI out DVD player with component out VCR or Laser Disc Player Stereo Amplifier Second monitor DVD player with SCART OUT Computer (Analog) Computer (Digital) English-14 Connecting a Personal Computer Connecting your computer to your LCD monitor will enable you to display your computer's screen image.

Some video cards and a pixel clock over 162MHz may not display an image correctly. Your LCD monitor displays proper image by adjusting the factory preset timing signal automatically. <Factory preset signal timing> Resolution 640 x 480 800 x 600 1024 x 768 1280 x 768 1360 x 768 1280 x 1024 1600 x 1200 1920 x 1080 Scanning frequency Horizontal Vertical 31.5kHz 60Hz 37.9kHz 60Hz 48.

4kHz 60Hz 48kHz 60Hz 48kHz 60Hz 64kHz 60Hz 75kHz 60Hz 66.6kHz 60Hz Remarks LCD4020/LCD4620 LCD5220 Recommended resolution Compressed image Compressed image Compressed image Recommended resolution Connect the LCD Monitor to a Personal Computer · · · · To connect the VGA IN connector (mini D-sub 15 pin) on the LCD monitor, use the supplied PC - Video RGB signal cable (mini D-sub 15 pin to mini D-sub 15 pin). To connect the RGB/HV connector (BNC) on the LCD monitor, use a mini D-sub 15 pin to BNC x 5 signal cable (sold separately). Select RGB/HV from the INPUT button. When connecting one or more LCD monitors, use the RGB OUT connector (BNC) (BNC INPUT only).

AUDIO IN* 1, 2 and 3 can be used for audio input. To select audio source [IN1], [IN2] or [IN3] press the AUDIO INPUT button. To RGB/HV IN BNC INPUT only BNC x 5 LCD monitor LCD monitor (second monitor) BNC x 5 BNC x 5 Mini D-sub 15 pin To audio output To analog RGB output Mini D-sub 15 pin PC or IBM compatible *: The product you purchased may not have this feature. English-15 English Connecting to a Macintosh Computer Connecting your Macintosh computer to your LCD monitor will enable you to display your computer's screen image. Some video cards or drivers may not display images correctly. Connect the LCD Monitor to Macintosh · · · To connect the VGA IN connector (mini D-sub 15 pin) on the LCD monitor, use the supplied PC - Video RGB signal cable (mini D-sub 15 pin to mini D-sub 15 pin). To connect the RGB/HV IN connector (BNC) on the LCD monitor, use a mini D-sub 15 pin to BNC x 5 signal cable (sold separately) (BNC INPUT only). If you use with a Macintosh PowerBook, set "Mirroring" to Off. Refer to your Macintosh's owner's manual for more information about your computer's video output requirements and any special identification or configuring your monitor's image and monitor may require. · AUDIO IN* 1, 2 and 3 can be used for audio input.

To select audio source [IN1], [IN2] or [IN3] press the AUDIO INPUT button. To RGB/HV IN BNC INPUT only BNC x 5 LCD monitor (second monitor) LCD monitor BNC x 5 BNC x 5 Mini D-sub 15 pin To audio output To analog RGB output Mini D-sub 15 pin Macintosh *: The product you purchased may not have this feature. English-16 Connecting with Digital Interface Equipment Connections can be made with equipment that is equipped with a digital interface that complies with the DVI (Digital Visual Interface) standard. Connect the LCD Monitor to a Computer with a Digital Output · · · · The DVI IN connector also accepts a DVI-D cable. Input TMDS signals conforming to DVI standards. To maintain display quality, use a cable that conforms to DVI standards.

AUDIO IN* 1, 2 and 3 can be used for audio input. To select audio source [IN1], [IN2] or [IN3] press the AUDIO INPUT button. For mode selection, see "DVI MODE" on page 28. To DVI output DVI-D connector To audio output Equipment with a digital interface such as a personal computer with RGB output (TMDS) LCD monitor DVI-D connector *: The product you purchased may not have this feature.

English-17 English Connecting a DVD Player with component out* Connecting your DVD player to your LCD monitor will enable you to display DVD video. Refer to your DVD player user's manual for more information. Connect the LCD Monitor to a DVD Player · To connect the DVD/HD IN connector (RCA) on the LCD monitor, use an RCA connector cable (sold separately). Some DVD players may have different connectors such as DVI-D connector. Select [DVI/HD] mode from the "DVI MODE" menu.

For mode selection, see "DVI MODE" on page 28. AUDIO IN* 1, 2 and 3 can be used for audio input. To select audio source [IN1], [IN2] or [IN3] press the AUDIO INPUT button. To audio left output To audio right output To DVD Component video output To DVI output RCA LCD monitor DVI-D connector *: The product you purchased may not have this feature. English-18 RCA Connecting a DVD Player with HDMI out* Connecting your DVD player to your LCD monitor will enable you to display DVD video.

Refer to your DVD player user's manual for more information. Select [HDMI] from the AUDIO INPUT button. Connect the LCD Monitor to a DVD Player · · · Please use an HDMI cable with HDMI logo.



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It may take a moment for the signal to appear. PC-DVI signals are not supported. To HDMI output LCD monitor HDMI connector Connecting a DVD Player with SCART out* Connecting your DVD player to your LCD monitor will enable you to display SCART. Connect the LCD Monitor to a DVD Player · To connect the DVD/HD IN connector (RCA) on the LCD monitor and connect the video (sync) and the Video In connector (RCA), use an RCA connector cable (sold separately). Some DVD players may have different connectors such as DVI-D connector. Select [ON] mode from the "SCART MODE" menu when you use a SCART connector. For mode selection, see "SCART MODE" on page 28.

The AUDIO IN* 1, 2 and 3 can be used for audio input. To select audio source [IN1], [IN2] or [IN3] press the AUDIO INPUT button. To audio right output To audio left output SCART LCD monitor To DVD Component video output *: The product you purchased may not have this feature. English-19 RCA English Connecting to a Stereo Amplifier* You can connect your stereo amplifier to your LCD monitor. Refer to your amplifier owner's manual for more information.

Connect the LCD Monitor to a Stereo Amplifier · · · · Turn on the LCD monitor and the amplifier only after all connections have been made. Use a stereo Mini-RCA cable to connect the AUDIO OUT* connector (Stereo Mini Jack) on the LCD monitor to the audio input on the amplifier. Do not reverse the audio left and right jacks. The AUDIO IN* is used for audio input. The AUDIO OUT* jack outputs sound from the selected Audio input.

To audio right output LCD monitor To audio left output VCR or Laser disc player RCA Amplifier To audio right input To audio left input External speaker External speaker *: The product you purchased may not have this feature. English-20 Power ON and OFF Modes The LCD monitor power indicator will turn green while powered on and will turn red or amber while powered off. NOTE: The Main Power Switch must be in the ON position in order to power up the monitor using the remote control or the Power Button on the front of the LCD. LCD4020/LCD4620 LCD5220 OFF Main Power Switch ON OFF Main Power

Switch ON Power Button Power Button Using the remote control English-21 English Basic Operation Power Indicator* Mode Power ON Power OFF (Eco Standby)*1 Power consumption under 1W Power OFF (Standby) Power consumption under 5W Power Save Power Standby when "SCHEDULE SETTINGS" enabled Diagnosis (Detecting failure) Status Indicator Light Green*2 Red Amber NORMAL: Displays the aspect ratio the same as it is sent from the source.

FULL: Fills entire screen.

WIDE*: Expands a 16:9 letter box signal to fill entire screen. ZOOM (DYNAMIC): Expands a 4:3 pictures to fill the entire screen with non-linearity. Some of the outside image area will be cut off due to expansion. ZOOM The image can be expanded beyond the active display area. The image which is outside of active display area is not shown.

ZOOM Amber Blinking Green and Amber blink alternately Red Blinking (See Troubleshooting page 38) *1 When in Eco Standby Mode RS-232C controls do not function. *2 If "OFF" is selected in POWER INDICATOR (page 27), the LED will not light when the LCD monitor is in active mode. Using Power

Management The LCD monitor follows the VESA approved DPM Power Management function. The power management function is an energy saving function that automatically reduces the power consumption of the display when the keyboard or the mouse has not been used for a fixed period. The power management feature on your new display has been set to the "ON" mode. This allows your display to enter a Power Saving Mode when no signal is applied.

This could potentially increase the life and decrease the power consumption of the display. STANDBY mode is used when the display is connected to an RS-232C cable or when using the INPUT DETECT function. ECO STANDBY uses less power, put the RS-232C and INPUT DETECT functions are not available. ZOOM Picture Mode DVI,VGA, RGB/HV STANDARD HDMI*, DVD/HD*, VIDEO*, TV* STANDARD sRGB CINEMA* HIGHBRIGHT HIGHBRIGHT Information OSD The Information OSD provides information such as: Monitor ID, Input Source, Picture Size, etc.

@@@Press + or - to adjust. Adjusts the image brightness in relationship to the background. Press + or - to adjust. Note: The sRGB picture mode is standard and cannot be changed. Adjusts the crispness of the image. Press + or - to adjust. Adjusts the image brightness in relationship to the background. Press + or - to adjust. Note: The sRGB picture mode is standard and cannot be changed. Adjusts the tint of the screen.

Press + or - to adjust. Adjusts the color depth of the screen. 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. @@@@Note: The sRGB picture mode is standard and cannot be changed. Select a display gamma for best picture quality. Note: The sRGB picture mode is standard and cannot be changed. Gamma correction is handled by the LCD panel.

Typical display gamma for use with a PC. @@@@Raises the dark parts and lowers the light parts of the image. (S-Curve) DICOM GSDF curve simulated for LCD type. A programmable gamma curve can be loaded using NEC software. Sets the level of adjustment for dynamic contrast. @@@@Press + or - to adjust. Selects Film mode. @@@@Press + to move right. Press - to move left. @@@@Press + to move up.

Press - to move down. Press + to expand the width of the image on the right of the screen. @@@@Adjusts the horizontal size of the image. Adjusts the vertical size of the image. @@@@For input sources that have a 14:9 aspect ratio. Expands 4:3 picture to fill the screen. Some of the image is lost due to expansion.

@@@@@Can be adjusted for each BASE ZOOM setting. Amount of vertical zoom. Can be adjusted for each BASE ZOOM setting.

Horizontal position. Can be adjusted for each BASE ZOOM setting. Vertical position. Can be adjusted for each BASE ZOOM setting. @@@@After selection, execute "AUTO SETUP" if required.

@@@@@Resets "AUDIO" options back to factory settings. @@@@Sets the monitor to power off after a length of time. A time between 1 to 24 hours is available. Creates a working schedule for the monitor to use. List of schedules.

Sets the date, time, and daylight saving region. @@@@OFF OFF *2: 16:9, 14:9, CUSTOM only *: The product you purchased may not have this feature. English-25 English PIP KEEP PIP MODE* Allows the monitor to remain in "PIP" mode after powering off. When Power is returned, PIP appears without having to enter the OSD. Picture-in-Picture OFF PIP POP OFF PIP MODE* OFF PIP POP OFF SIDE BY SIDE (ASPECT) SIDE BY SIDE ASPECT SIDE BY SIDE (FULL) PIP SIZE SMALL MIDDLE LARGE PIP POSITION TEXT TICKER PIP RESET Determines where the PIP appears on the screen.



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Allow text insertion within main screen. Resets PIP options back to factory settings. X = 95, Y = 92 OFF SIDE BY SIDE FULL Selects the size of the sub-picture used in Picture-in-Picture (PIP) mode. LARGE OSD LANGUAGE ENGLISH DEUTSCH FRANÇAIS ITALIANO ESPAÑOL SVENSKA Select the language used by the OSD. English OSD TURN OFF OSD POSITION UP DOWN LEFT RIGHT INFORMATION OSD Turns off the OSD after a period of inactivity.

The preset choices are 10-240 seconds. Determines the location where the OSD appears on the screen. 30 Sec. X = 128, Y = 225 Selects whether the information OSD is displayed or not. The information OSD will be displayed when the input signal or source changes. The information OSD will also give a warning when there is no-signal or the signal is out-of-range. An interval between 3 to 10 seconds for the Information OSD to appear is available. ON, 3 Sec.

MONITOR INFORMATION Monitor Information. OSD TRANSPARENCY OFF TYPE1 TYPE2 OSD RESET Resets the following settings within the OSD menu back to factory setting: OSD TURN OFF, OSD POSITION, INFORMATION OSD, OSD TRANSPARENCY.

Set the transparency level of the OSD. TYPE2 - *: The product you purchased may not have this feature. English-26 MULTI DISPLAY MONITOR ID IR CONTROL Sets the monitor ID number from 1-26. Selects the mode of the monitor for use with the infra-red remote control when using the RS-232C daisy chain. The monitor will be controlled normally by wireless remote controller.

Choose "PRIMARY" for the first monitor within an RS-232C daisy chain. Choose "SECONDARY" for all subsequent monitors within an RS-232C daisy chain.

Prevents the monitor from being controlled by wireless remote controller. To return to normal operation, press the "DISPLAY" button on the remote controller for 5 seconds. Allows one image to be expanded and displayed over multiple screens (up to 25) through a distribution amplifier.

Number of monitors arranged horizontally. Number of monitors arranged vertically. Select which section of the tiled image to be displayed on the monitor. Turns the TILE COMP feature on. Enables Tile Matrix. Adjusts the delay time between being in "standby" mode and entering "power on" mode. "POWER ON DELAY" can be set between 0 and 50 seconds. Turns ON or OFF the LED located at the front of the monitor. If "OFF" is selected, LED will not light when the LCD monitor is in active mode. Resets the following settings within the MULTI DISPLAY menu back to factory setting: MONITOR ID, IR CONTROL, TILE MATRIX, POWER ON DELAY.

1 1 1 NO NO 0 Sec. 1 NORMAL NORMAL PRIMARY SECONDARY LOCK TILE MATRIX H MONITORS V MONITORS POSITION TILE COMP ENABLE POWER ON DELAY POWER INDICATOR ON MULTI DISPLAY RESET - DISPLAY PROTECTION POWER SAVE All inputs except for TV Sets how long the monitor waits to go into power save mode after a lost signal. Note: When connecting DVI, video card might not stop sending digital data even if image has disappeared. In this case the monitor does not get to power management mode. Lowers power consumption. Note: RS-232C Function is lost when in Eco Standby mode. Displays status of the COOLING FAN, BRIGHTNESS and TEMPERATURE. Cooling fan reduces the temperature of the display. Use the SCREEN SAVER function to reduce the risk of Image Persistence. The display gamma is changed and fixed when "ON" is selected.

The brightness is decreased when "ON" is selected. The screen image is slightly expanded and moves in 4 directions (UP, DOWN, RIGHT, LEFT) at user determined intervals. Adjusts the color of the side borders when a 4:3 image is displayed. Press + button, the bar will become lighter. Press - button, the bar will become darker.

Adjusts the brightness level according to the input signal. Allows the security password to be changed. The factory preset password is 0000. Locks the security password. ENABLE/DISABLE: Turns On or OFF the two way communication and control of the monitor.

Resets the following settings within the DISPLAY PROTECTION menu back to factory setting: POWER SAVE, FAN CONTROL, SCREEN SAVER, SIDE BORDER COLOR, AUTO BRIGHTNESS. ON STANDBY MODE STANDBY HEAT STATUS FAN CONTROL SCREEN SAVER GAMMA BRIGHTNESS MOTION AUTO OFF OFF OFF SIDE BORDER COLOR 15 AUTO BRIGHTNESS DVI, VGA, RGB/HV inputs only OFF - CHANGE SECURITY PASSWORD SECURITY LOCK DDC/CI DISPLAY PROTECTION RESET OFF ENABLE - *: The product you purchased may not have this feature.

English-27 English ADVANCED OPTION INPUT DETECT All inputs except for TV Selects the method of input detection the monitor uses when more than two input devices are connected. The Monitor will not search the other video input ports. When the current video input signal is not present, then the monitor searches for a video signal from the other video input port. If the video signal is present in the other port, then the monitor switches the video source input port to the new found video source automatically. The monitor will not look for other video signals while the current video source is present. When the monitor is displaying a signal from the current source and a new secondary source is supplied to the monitor, the monitor will automatically switch to the new video source. When current video input signal is not present, the monitor searches for a video signal from the other video input port. If the video signal is present in the other port, then the monitor switches the video source input port to the new found video source automatically.

DVD/HD or VIDEO inputs will have priority over DVI, VGA, RGB/HV. When DVD/HD or VIDEO input signal is present the monitor will change and keep to the DVD/DH or VIDEO input. Compensates for image degradation caused from using a long cable. Manually compensates for image degradation caused from using a long cable. Adjusts the phase of the red signal. Adjusts the phase of the green signal. Adjusts the phase of the blue signal. Adjusts the performance degradation of the RED signal. Adjusts the performance degradation of the GREEN signal. Adjusts the performance degradation of the BLUE signal.

Adjusts the shape of Sync on Green signal. Optimize the shape (Tailing) of RED, GREEN and BLUE signals. Selects the terminate resistance for matching the cable impedance. Selects the kind of DVI-D equipment which is connected DVI. Select "DVI-PC" when PC or other computer equipment is connected. Select "DVI-HD" when DVD player, which has DVI-D output, is connected. Selects the IP (Interlace to Progressive) conversion function. Note: For DVI input "DVI-HD" need to be enabled in the DVI mode menu. Converts interlaced signals to progressive. This is the default setting.

Disables IP conversion. This setting is best suited for motion pictures, but increases the risk of image retention. Input mode for devices using SCART connectors. Selects the S-Video input port function. When an S-Video cable is connected to the S-Video input, it will have priority over the composite input port.



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The S-Video port and Composite port can be selected as independent input ports. The selected Color System depends on the video format of the input signal. Automatically chooses Color System setting based on input signal. FIRST DETECT NONE FIRST DETECT LAST DETECT VIDEO DETECT* LONG CABLE ON/OFF VGA, RGB/HV inputs only OFF LONG CABLE MANUAL VGA, RGB/HV inputs only RED DELAY GREEN DELAY BLUE DELAY RED SHARPNESS GREEN SHARPNESS BLUE SHARPNESS SOG PEAK. VIDEO EQ.

RGB/HV input only 0 0 0 23 23 0 0 HIGH DVI-PC SYNC TERMINATE RGB/HV input only DVI MODE SCAN CONVERSION All inputs except VGA, RGB/HV PROGRESSIVE PROGRESSIVE INTERLACE SCART MODE* S-VIDEO MODE* PRIORITY OFF PRIORITY SEPARATE COLOR SYSTEM* VIDEO input only AUTO AUTO NTSC PAL SECAM 4.43NTSC *: The product you purchased may not have this feature. English-28 PAL-60 SCAN MODE* HDMI, DVD/HD, VIDEO, TV inputs only Some video formats may require different scanning modes in order to best display the image. Image size is larger than what can be displayed. The image edge will appear cropped. Approximately 95% of the image will be shown on the screen. Image size stays within the display area. The whole image is displayed on the screen. Resets the following settings within the ADVANCED OPTION menu back to factory setting: INPUT DETECT, LONG CABLE ON/OFF, LONG CABLE MANUAL, DVI MODE, SCAN CONVERSION, S-VIDEO MODE, SCAN MODE. Resets OSD options back to factory settings EXCEPT FOR: CHANGE SECURITY PASSWORD and SECURITY PASSWORD.

INPUT: HDMI, DVD/HD, VIDEO, S-VIDEO HIGHBRIGHT STANDARD CINEMA 100 50 75 50 80 50 OVER SCAN OVER SCAN UNDER SCAN ADVANCED OPTION RESET - FACTORY RESET - PICTURE MODE *1: BRIGHTNESS *2: CONTRAST *3: SHARPNESS *4: BLACK LEVEL *5: TINT *6: COLOR *7: COLOR TEMPERATURE *8: COLOR CONTROL *9: GAMMA SELECTION *10: ADAPTIVE CONTRAST INPUT: DVI, VGA, RGB/HV HIGHBRIGHT STANDARD sRGB 100 50 50 50 10000K 0 (CENTER) NATIVE 75 50 50 50 10000K 0 (CENTER) NATIVE 100 50 - 50 (DVD/HD, HDMI) 50 (DVD/HD, HDMI) 50 (DVD/HD, HDMI) 60 (VIDEO, S-VIDEO) 60 (VIDEO, S-VIDEO) 60 (VIDEO, S-VIDEO) 50 50 50 50 50 50 (DVD/HD, HDMI) 60 (VIDEO, S-VIDEO) 10000K S-GAMMA OFF 50 (DVD/HD, HDMI) 50 (DVD/HD, HDMI) 60 (VIDEO, S-VIDEO) 60 (VIDEO, S-VIDEO) 10000K S-GAMMA MID 10000K 2.4 OFF NOTE: When connecting to a TV tuner (For U.S.), refer to page 30. When connecting to a TV tuner (For Europe), refer to page 32. *: The product you purchased may not have this feature. English-29 English Connecting to a TV* (For U.S.) Initial TV Setup Before watching TV for the first time it is necessary to program the channels. 1.

Attach the cable or antenna to the coaxial RF Connector on the side of the monitor. NOTE: Cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electric Code (NEC), in particular section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable. 2. Enter the OSD and go to the TUNER menu below. 3. In the TUNING BAND menu select which tuning method (Air, Cable, Cable HRC, Cable IRC) will be used. 4. Enter the CHANNEL SEARCH menu. Press SET to automatically scan and store channels to memory.

The channel search will store both analog and digital channels. NOTE: Analog channels are indicated with a -0 following the channel number. Digital channels are indicated with a - followed by a number. For example, channel 2-0 is analog and channel 2-1 is digital. Analog channels may also have separate digital subchannels associated with them. For example channel 3-0 would be analog followed by channel 3-1, 3-2, etc. 5. Once channels are in memory, use the CHANNEL EDIT menu to add or remove channels. Use the CHANNEL LABELS menu to create unique names for channels, if desired. Parental Controls (TV, VIDEO input only) Parents can block certain types of programming based on rating and the content.

To block programming: 1. Enter the PARENTAL CONTROL menu, found under the CONFIGURATION submenu within the TUNER OSD. 2. Enter the password. Default password is 0000. This password can be changed in the PASSWORD SET menu. 3. Highlight the square next to the type of programming you wish to block and press SET on the remote. NOTE: Blocking one type of programming will automatically block all higher rated programming also. However, it is possible to unlock this programming while keeping the desired programming blocked.

TV TUNER TV TUNER Not all models have the Digital Tuner installed. TUNER TUNING BAND CHECK DTV SIGNAL CHANNEL SEARCH ADD ON CHANNEL SEARCH FINE TUNING CHANNEL EDIT CHANNEL LABELS CONFIGURATION MENU LANGUAGE TIME ZONE PASSWORD SET PARENTAL CONTROL PARENTAL CONTROL MENU ADVANCED RATING CLOSED CAPTION OPTIONS RESOLUTION AUDIO AUDIO LANGUAGE DIGITAL AUDIO OUTPUT Choose the language of audio output. Select the digital audio output source. Choose Dolby D/PCM/OFF. Parents can choose to block types of programming based on rating and content. Set the Parental Control Password. Factory default password is 0000. Choose AIR or Cable as TV source. Shows the status of the Digital TV signal. Searches for TV channels and stores them in memory.

Searches for TV channels and stores them in memory without erasing previously stored channels. Performs fine adjustments to analog channels. Add or remove channels stored in memory. Add a label to the channel. Downloadable rating, depending on broadcast. Press SET to change setting. NOTE: Closed captioning settings can not be adjusted for the VIDEO/S-VIDEO inputs. AUTOMATIC is the only option available for these inputs. Set the displayed image to the desired resolution. * The product you purchased may not have this feature.

English-30 TV Parental Guide Ratings Chart OFF TV-Y TV-Y7 TV-G TV-PG TV-14 No Limitation. All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6. Directed to older children. Themes and elements in this program may include mild physical or comic violence or may frighten children under the age of 7.

General audience. It contains little or no violence, no strong language, and little or no suggestive dialogue or situations. Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations. Parents strongly cautioned. This program contains some material that many parents would find unsuitable for children under 14 years of age. This program may contain intense violence (V), intense sexual situations (S), strong coarse language (L), or intensely suggestive dialogue (D). Mature audiences only. This program may contain mature themes, indecent language, graphic violence and explicit sexual content. TV-MA Video Parental Guide Ratings Chart OFF G PG PG-13 R NC-17 X No Limitation General audiences. All ages are permitted to watch. Parental guidance suggested. Some material may not be suitable for children. Parents strongly cautioned. Some material may be inappropriate for children under 13.



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Restricted. Under 17 requires an accompanying parent or adult guardian. No one under 17 permitted to watch. Adults only. Changing the channel Both Analog and Digital channels are available using this tuner. In addition to the CH+ and CH- buttons channels can be changed in the following method. Tuning Analog Channels Input the desired channel number using the keypad, then press [SET] or [ENT] to immediately tune to the new channel. If the number is input and [SET] or [ENT] is not pushed, after a few seconds the channel will be changed. For example to tune to channel 5, press [5] then press [SET] or [ENT]. Tuning Digital Channels To tune in to a digital sub-channel enter the number of the main channel, then a dash followed by the number of the subchannel.

For example to tune to digital channel 5-1, press [5] then [] then [1]. Press [SET] or [ENT] to tune. English-31 English Connecting to a TV* (For Europe) Precautions when connecting the antenna · Use a coaxial cable which is free from interference. Avoid using a parallel flat wire as interference may occur, causing the reception to become unstable and noise to appear on the screen. . . . Avoid using an indoor antenna as this may be affected by interference and poor reception.

Cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable. Keep the power cord as far away from the antenna wire as possible. Auto Tuning. Please refer to the OSD menu below.

VHF (300-Ohm) antenna / UHF antenna · When using a 300-ohm twin lead from an outdoor antenna, connect the VHF or UHF antenna leads to the screws of the VHF or UHF adapter. Plug the 300-ohm to 75-ohm adapter into the antenna on the LCD MONITOR. · When both VHF and UHF antennas are combined: Attach an optional antenna cable signal combiner to the LCD MONITOR antenna terminal, and connect the cables to the antenna mixer. Consult your local electronics retailer about available signal combiners. Reconnect the unit to the power source and turn on the power · Using the Remote Control or User Controls, select the "TV TUNER". Select the appropriate menu based upon which source (cable or antenna) is being used. · Refer to the OSD menu below for further information on the "TV TUNER" as well as for information on how to use the "CHANNEL SEARCH" function to program available channels. The screen of the coaxial cable is intended to be connected to earth in the building installation. TV TUNER REGION CHANNEL SEARCH CHANNEL EDIT Selects region. Automatically stores available channels.

Manually adds or removes channels from TV mode. CAUTION: TELETEXT SELECT button between TV (VIDEO) picture, TELETEXT or Press the MIXED. TV PICTURE TELETEXT MIXED [TV & TELETEXT] PAGE SELECTION Use the KEYPAD buttons 0 to 9 to select the required page (3 digit number). PAGE UP/DOWN Press the CH +/- buttons to increase or decrease the page number selected. HOLD Some TELETEXT information is contained in more than one page. The pages automatically changing after a given reading time. Press the STILL ON/OFF button to stop the page changing (the symbol will appear on the page heading). Press the STILL ON/OFF button again to allow the page to change (the symbol will disappear). REVEAL Some TELETEXT pages contain quiz or game questions with hidden answers. Press the STILL CAPTURE button to see the answers.

Press the STILL CAPTURE button again to hide the answers. * The product you purchased may not have this feature. CANCEL 1. Periodically revised NEWS FLASHES can be obtained from TELETEXT broadcasts. Select the News Flash page in TELETEXT mode then press the PIP ON/OFF button. You can now watch the TV program and every time the news flash page is updated it will be automatically displayed in the TV picture. Press the PIP ON/OFF button to cause the news flash to disappear. 2. When a page is selected in TELETEXT mode it may take some time before it becomes available, pressing the PIP ON/OFF button will switch to the TV mode. When the required page is found the page number will appear at the top of the TV picture, press the PIP ON/OFF button to return to the selected TELETEXT page.

Note: You cannot change TV program while in this mode. FAST TEXT (For possible future reference) The "PICTURE MODE", "SIZE", "SOUND" and "AUDIO INPUT" buttons are used for quick access to color coded pages transmitted by FAST TEXT broadcast. RED: PICTURE MODE GREEN: SIZE YELLOW: SOUND CYAN: AUDIO INPUT INDEX Press the GUIDE button to select the INDEX page. English-32 NOTE 1: CREATING A SCHEDULE To program the schedule: 1. Enter the SCHEDULE menu. Highlight SCHEDULE SETTINGS using the up and down buttons. Press the SET or the + button to enter the Settings menu. Highlight the desired schedule number and press set. The box next to the number will turn yellow. The schedule can now be programmed.

2. Use the up and down arrows to highlight INPUT. Use the + and - buttons to choose the input source. 3. After the INPUT source is selected, use the down button to highlight the hours setting in the ON time slot . Use the + and - buttons to set the hour. Use the up and down buttons to highlight the minutes setting. Use the + and - buttons to set the minutes. Set the OFF time in the same manner. 4.

Use the down button to select a day on which the schedule will be enabled. Push the set button to enable. If the schedule is to be ran every day, choose EVERY DAY and press the SET button. The circle next to EVERY DAY will turn yellow. If a weekly schedule is desired, choose the days of the week using the up and down buttons and pressing SET to select.

Then highlight the EVERY WEEK option and press SET. 5. After a schedule is programmed the remaining schedules can then be set. Press MENU to leave the OSD or press EXIT to go back to the previous menu. Note: If schedules are overlapping then the schedule with the highest number will have priority over the schedule with the lowest number.

For example schedule #7 will have priority over schedule #1. DVI SCHEDULE: OFF TIMER SCHEDULE SETTINGS SCHEDULE LIST DATE & TIME SCHEDULE RESET RESET TODAY: SETTINGS: 1 2 SEP.27.2006 12:18 3 4 5 6 7 INPUT: ON: OFF: DVI 10 : 30 17 : 45 WED SUN THU · EVERY DAY MON TUE FRI SAT EVERY WEEK Choose Mark Return Close NOTE 2: IMAGE PERSISTENCE Please be aware that LCD Technology may experience a phenomenon known as Image Persistence. Image Persistence occurs when a residual or "ghost" image of a previous image remains visible on the screen. Unlike CRT monitors, LCD monitors' image persistence is not permanent, but constant images being displayed for a long period of time should be avoided. To alleviate image persistence, turn off the monitor for as long as the previous image was displayed.



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