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You can read the recommendations in the user guide, the technical guide or the installation guide for NEC VT540K. You'll find the answers to all your questions on the NEC VT540K in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NEC VT540K
User guide NEC VT540K
Operating instructions NEC VT540K
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**MultiSync VT440/VT540
LCD Projector
User's Manual**

English



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Manual abstract:

NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED NEC SERVICE PERSONNEL. RF Interference WARNING The Federal Communications Commission does not allow any modifications or changes to the unit EXCEPT those specified by NEC Technologies in this manual. Failure to comply with this government regulation could void your right to operate this equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver.

· Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio / TV technician for help. This symbol warns the user that uninsulated voltage within the unit may be sufficient to cause electrical shock. Therefore, it is dangerous to make any kind of contact with any part inside of the unit. This symbol alerts the user that important information concerning the operation and maintenance of this unit has been provided.

The information should be read carefully to avoid problems. **WARNING TO PREVENT FIRE OR SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. DO NOT USE THIS UNIT'S GROUNDED PLUG WITH AN EXTENSION CORD OR IN AN OUTLET UNLESS ALL THREE PRONGS CAN BE FULLY INSERTED. DO NOT OPEN THE CABINET. THERE ARE HIGH-VOLTAGE COMPONENTS INSIDE.**

ALL SERVICING MUST BE DONE BY QUALIFIED NEC SERVICE PERSONNEL. In UK, a BS approved power cable with moulded plug has a Black (five Amps) fuse installed for use with this equipment. If a power cable is not supplied with this equipment please contact your supplier. DOC Compliance Notice This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. 3. GSGV Acoustic Noise Information Ordinance: The sound pressure level is less than 70 dB (A) according to ISO 3744 or ISO 7779. · IBM is a registered trademark of International Business Machines Corporation. · Macintosh and PowerBook are registered trademarks of Apple Computer, Inc. · Other product and company names mentioned in this user's manual may be the trademarks of their respective holders. E2 Important Safeguards These safety instructions are to ensure the long life of your projector and to prevent fire and shock.

Please read them carefully and heed all warnings. **CAUTION** Do not unplug the power cable from the wall outlet under any one of the following circumstances. Doing so can cause damage to the projector: * While the Hour Glass icon appears. * While the message "Please wait a little." appears. This message will be displayed after the projector is turned off. * Immediately after the power cable is plugged into the wall outlet (the POWER indicator has not changed to a steady amber glow). * Immediately after the cooling fan stops working (The cooling fan continues to work for 30 seconds after the projector is turned off with the POWER OFF button). * While the POWER and the STATUS indicators are alternately flashing. Installation 1.

For best results, use your projector in a darkened room. 2. Place the projector on a flat, level surface in a dry area away from dust and moisture. 3. Do not place your projector in direct sunlight, near heaters or heat radiating appliances. 4. Exposure to direct sunlight, smoke or steam can harm internal components. 5. Handle your projector carefully. Dropping or jarring can damage internal components.

6. Do not place heavy objects on top of the projector. 7. If you wish to have the projector installed on the ceiling: a. Do not attempt to install the projector yourself. b. The projector must be installed by qualified technicians in order to ensure proper operation and reduce the risk of bodily injury. c. In addition, the ceiling must be strong enough to support the projector and the installation must be in accordance with any local building codes. d.

Please consult your dealer for more information. Power Supply 1. The projector is designed to operate on a power supply of 100-120 or 200-240 V 50/60 Hz AC. Ensure that your power supply fits this requirement before attempting to use your projector. 2. Handle the power cable carefully and avoid excessive bending. A damaged cord can cause electric shock or fire. 3. If the projector is not to be used for an extended period of time, disconnect the plug from the power outlet. Cleaning 1.

Unplug the projector before cleaning. 2. Clean the cabinet periodically with a damp cloth. If heavily soiled, use a mild detergent. Never use strong detergents or solvents such as alcohol or thinner.

3. Use a blower or lens paper to clean the lens, and be careful not to scratch or mar the lens. E3 Lamp Replacement · To replace the lamp, follow all instructions provided on page E-33. · Be sure to replace the lamp when the message "The lamp has reached the end of its usable life. Please replace the lamp." appears. If you continue to use the lamp after the lamp has reached the end of its usable life, the lamp bulb may shatter, and pieces of glass may be scattered in the lamp case. Do not touch them as the pieces of glass may cause injury. If this happens, contact your NEC dealer for lamp replacement. · Allow a minimum of 30 seconds to elapse after turning off the projector. Then disconnect the power cable and allow 60 minutes to cool the projector before replacing the lamp. Fire and Shock Precautions 1. Ensure that there is sufficient ventilation and that vents are unobstructed to prevent the build-up of heat inside your projector. Allow at least 3 inches (10 cm) of space between your projector and a wall. 2.

Prevent foreign objects such as paper clips and bits of paper from falling into your projector. Do not attempt to retrieve any objects that might fall into your projector. Do not insert any metal objects such as a wire or screwdriver into your projector. If something should fall into your projector, disconnect it immediately and have the object removed by a qualified NEC service personnel. 3. Do not place any liquids on top of your projector. · Do not look into the lens while the projector is on. Serious damage to your eyes could result. · Keep any items such as magnifying glass out of the light path of the projector.



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The light being projected from the lens is extensive, therefore any kind of abnormal objects that can redirect light coming out of the lens, can cause unpredictable outcome such as fire or injury to the eyes.

· Do not cover the lens with the supplied lens cap or equivalent while the projector is on. Doing so can lead to melting of the cap and possibly burning your hands due to the heat emitted from the light output. E4 TABLE OF CONTENTS 1. INTRODUCTION Introduction to the MultiSync VT440/VT540 Projector ..

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happen, try pushing the card remote control straight again.

PUBLIC TELEVISION INTERNATIONAL CONTROLS-VISUALS. Tie a knot again String 3. Use the rivet to attach the string to the bottom of the lens hood. Rivet Top Features 1 2 SECRET 5 7 4 MENU TO USE JUDGMENT RELECT STAPEWORK CANCELS AND 6 BY 8 9 1 Source Button Use this button to select a video source such as a PC, VCR or DVD player. 2 Auto Adjust Button Use this button to adjust Position-H/V and Pixel Clock/Phase for an optimal picture.



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Some signals may not be displayed correctly or take time to switch between sources. 3 Menu Button Displays the menu. 4 Select (vw) / Volume (+) (-) Buttons vw: Use these buttons to select the menu of the item you wish to adjust. : Use these buttons to change the level of a selected menu item. A press of the button executes the selection.

When no menus appear, these vw buttons work as a volume control. When the pointer is displayed, these vw buttons move the pointer. 5 Enter Button Executes your menu selection and activates items selected from the menu. 6 Cancel Button Press this button to exit the menu. Press this button to return the adjustments to the last condition while you are in the adjustment or setting menu. 7 Status Indicator When this is lit red (orange in Eco mode) continually, it's warning you that the projection lamp has exceeded 2000 hours (up to 3000 hours in Eco mode) of service. After this light appears, it is advisable to replace the projection lamp as soon as possible. (See page E-33). In addition the message "The lamp has reached the end of its usable life. Please replace the lamp."

appears continually until the lamp is replaced. If this light blinks red rapidly, it indicates that the lamp cover or filter cover is not attached properly or the projector is overheated. See the Power / Status Light Messages on page E-35 for more details. 8 Power Indicator () When this indicator is green, the projector is on; when the indicator is orange, it is in standby mode. 9 Power Button (ON / STAND BY) Use this button to turn the power on and off when the power is supplied and the projector is in standby mode.

NOTE: To turn off the projector, press and hold this button for minimum of two seconds. E10 Terminal Panel Features RGB INPUT AUDIO S TA P TU O W S E R ENTER O N / S TA N D I N OUT 3 CA OUTPUT OUT IN 2 PC-CONTROL S-VIDEO VIDEO 4 8 Slot for Kensington MicroSaver Security System 7 5 6

1. RGB Input Connector (Mini D-Sub 15 pin) Connect your PC or other RGB equipment. Use the supplied signal cable to connect to a PC. 2. RGB Monitor Output Connector (Mini D-Sub 15 pin) You can use this connector to loop your computer image to an external monitor from the RGB input source. 3. Audio Input / Output Mini Jack This is where you connect audio output from your computer. Or connect additional external speakers here to listen to audio coming from your Video or S-Video input. 4. Audio Input / Output Connector (RCA) This is where you connect audio output from a VCR, DVD player, or laser disc player. Or connect additional external speakers to listen to audio coming from your RGB source. NOTE: Either connector 3 or 4 can be used for input or output, however they cannot both be used for input simultaneously. It can damage your equipment. 5.

Video Input (RCA) Connect a VCR, DVD player, laser disc player, or document camera here to project video. 6. S-Video Input Port (Mini DIN 4 Pin) Connect the S-Video input from an external source like a VCR. 7. PC Control Port (Mini DIN 8 Pin) Use this port to connect your PC to control your projector. This enables you to use your PC and serial communication protocol to control the projector. If you are writing your own program, typical PC control codes are on page E-40. A cap is put on the port at the factory. Remove the cap when using the port. 8.

Built-in Security Slot () This security slot supports the MicroSaver® Security System. MicroSaver® is a registered trademark of Kensington Microware Inc. The logo is trademarked and owned by Kensington Microware Inc. E11 NU B Y N C E L S E L E C T S O U R C E M E A U T O A D J U S T Remote Control Features 1 Source Button Press to select a video source. 2 Auto Adjust Button Use this button to adjust Position-H/V and Pixel Clock/Phase for an optimal picture.

Some signals may not be displayed correctly, or in some cases it may take some time for a source to switch between sources. 3 Menu Button Displays the menu.) / Volume (+) (-) Buttons 4 Select (vw) vw: Use these buttons to select the menu of the item you wish to adjust. : Use these buttons to change the level of a selected menu item. A press of the button executes the selection.

When no menus appear, these vw buttons work as a volume control. When the pointer is displayed, these vw buttons move the pointer. 5 Enter Button Use this button to enter your menu selection. 6 Cancel Button Press this button to exit "Menus". Press this button to return the adjustments to the last condition while you are in the adjustment or setting menu. 7 Magnify Button Use the (+) or (-) button to adjust the image size up to 400%. When the Pointer is displayed, the magnified image is displayed at the center of the Pointer. When the Pointer is not displayed, the magnified image is displayed at the center of the screen.

When the image is magnified, the pointer is changed to the magnifying icon. 8 Pointer Button Press this button to display one of the eight pointers; press again to hide the pointer.

You can move your pointer icon to the area you want on the screen using the Select button. 9 Picture Mute Button This button turns off the image and sound for a short period of time. Press again to restore the image and sound. 10 Help Button Provides information about operation and adjustment procedures or the set information for the current menu or adjustment during menu operation. This also displays information how to use the Help. 11 Power Button If power is applied, you can use this button to turn your projector on and off. NOTE: To turn off the projector, press and hold the POWER button for a minimum of two seconds. Remote Control 12 1 SOURCE AUTO ADJ. 2 ME 3 NU Vol.+ SELECT Vol.

4 CE L EN 5 ER CA N 6 8 9 11 MAGNIFY T POINTER PIC. MUTE 7 HELP POWER RD-366E 10 NOTE: Remove the transparent insulation tape before use. See page E-34 for battery installation. M nO 20 R C 2- LiCELL 3 V O 12 Infrared Transmitter Direct the remote control toward the remote sensor on the projector cabinet. Remote Control Precautions Handle the remote control carefully.

If the remote control gets wet, wipe it dry immediately. Avoid excessive heat and humidity. Do not place the battery upside down. NOTE: Before you use the card remote control for the first time, be sure to remove the insulation tape from the card remote control. * Keep the coin cell battery out of reach of children so as not to allow them to swallow the cell battery.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to your local regulations. E12 LT S JAPAN H 25 Operating Range 7m 22 feet 30° 7m 7m 22 feet 30° E13 2. INSTALLATION This section describes how to set up your MultiSync VT440/VT540 projector and how to connect video and audio sources.



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Setting up Your Projector Your MultiSync VT440/VT540 Projector is simple to set up and use. But before you get started, you must first: 1. Determine the image size. 2. Set up a screen or select a non-glossy white wall onto which you can project your image.

Carrying the Projector: Always carry your projector by the handle. Ensure that the power cable and any other cables connecting to video sources are disconnected before moving the projector. When moving the projector or when it is not in use, cover the lens with the lens cap. 4. Move the projector left or right to center the image horizontally on the screen. 5. To center the image vertically, lift the front edge of the projector and press the One-Touch Tilt button on the front side of the projector to release the Front Adjustable foot. Side view Screen AUTO ADJUST SELECT R CA N MENU STATUS POWER E NTE ON/OFF Carrying handle C E L P C - C O N T R O L S - V I D E O T V I D E O O U T I N I N O U T A U D U O U T P (There is approximately 10 degrees of up and down adjustment for the front of the projector.) Adjusting the Tilt Foot 1) Press and hold the Tilt button on the front of the projector. 2) Lift the front edge of the projector to the height you want, and release the button to lock the Adjustable Tilt Foot.

Using a Tabletop or Cart 1. Place your projector on a flat level surface at the optimal distance from the screen or wall so you realize the size image you want. (Avoid having bright room lighting or sun light directly on the screen or wall where you'll be projecting the image.) 2. Connect the power cable, remove the lens cap and turn the projector on.

(If no input signal is available, the projector will display a background image.) 3. Ensure that the projector is square to the screen. Top view Screen To fine-tune the image's position vertically on the screen, rotate the foot. Each of the rear feet height can be changed up to 0.

6" (4mm). LE TA S AUTO ADJUST SELECT MENU SOURCE EN STATUS POWER TER EL CANC ON/OFF 6. If the projected image does not appear square to the screen then use keystone correction for proper adjustment. 7. @@@@ Contact your NEC dealer for more information. * Do not attempt to install the projector yourself. - Only use your projector on a solid, level surface. @@ - Do not use the projector where temperatures vary greatly. @@ - Do not expose the projector to moisture, dust, or smoke. This will harm the screen image.

@@@@ Contact your NEC dealer if you need a mirror. @@@@ To connect to a PC, simply: 1. Turn off the power to your projector and computer. 2. Use the supplied signal cable to connect your PC to the projector. 3. Turn on the projector and the computer. 4.

@@@@ Turn off the power to your projector and your Macintosh computer. 2.

@@3. Turn on the projector and the Macintosh computer. DIP ON 1 3 4 5 6 2 For older Macintosh, use the supplied pin adapter to connect to your Mac's video port. Pin adapter for Macintosh (supplied) E19 When using a Macintosh computer with the projector, set the DIP switches of the supplied pin adapter according to your resolution. After setting, restart your Macintosh computer.

See the following pages for setting of the DIP switches. - When using with a Macintosh, SVGA(800 600 :VT440)/ XGA(1024 768 : VT540) is recommended if your Macintosh supports this mode. - When using with a Macintosh PowerBook, output may not be set to 800 600 unless "mirroring" is off on your PowerBook. Refer to owner's manual supplied with your Macintosh computer for mirroring. NOTE: A Video Adapter cable manufactured by Apple Computer is needed for a PowerBook which does not have a mini D-Sub 15-pin connector.

Settings for Monitor Mode Number of DIP switch Resolution 13" multi-scan mode /16"-13" 17" multi-scan mode /19"-13" 21" multi-scan mode /21"-13" 13" fixed mode /640x480 VGA/SVGA mode 16" fixed mode /832x624 19" fixed mode /1024x768 21" fixed mode /1152x870 1 ON ON ON ON 2 ON ON ON ON ON ON ON ON ON ON ON ON 3 4 5 ON ON 6 ON ON ON NOTE: For settings other than display modes supported by your Macintosh and the projector, use of the DIP switch may bounce an image slightly or may display nothing. If this happens, set the DIP switch to the 13" fixed mode and then restart your Macintosh. After that, restore to a displayable mode and then restart the Macintosh again. Make sure that the projector and your Macintosh are connected with the pin adapter and the supplied signal cable (mini DSub 15-pin connector) and then restart your Macintosh. Examples of DIP switch setting 17" multi-scan mode ON 1 2 3 4 5 6 VGA/SVGA mode ON 1 2 3 4 5 6 ON 19" fixed mode 1 2 3 4 5 6 NOTE: Refer to your computer's owner's manual for more information about your computer's video output requirements and any special identification or configuring your projector's image and monitor may require.

E20 Connecting an External Monitor External monitor RG INP B UT AU OU PC DIO AU DIO TP IN UT IN OU OU T T -CO NT RO L IN RG S-V AU BO IDE O VID DIO OU UT PU EO T T You can connect a separate, external monitor to your VT440/VT540 to simultaneously view on a monitor the image you're projecting. To do so: 1. Turn off the power to your projector, monitor and computer. 2. Use a 15-pin cable to connect your monitor to the RGB Monitor Output (Mini D-Sub 15 pin) connector on your projector.

3. Turn on the projector, monitor and the computer. E21 Connecting Your DVD Player DVD player Cr Cb Y L R Cr Cb Y White PC -CO RG INP B UT RG BI NP UT AU DIO OU TP UT IN OU T OU T NT RO L IN Red S-V IDE O VID EO Optional 15-pin-to-RCA (Component V) Audio Equipment 3 cable L R Audio cable (not supplied) White Red You can connect your projector to a DVD player with component outputs or Video output. To do so, simply: 1. Turn off the power to your projector and DVD player. 2. If your DVD player has the component video (Y,Cb,Cr) output, use the optional 15-pin-to-RCA 3 cable to connect your DVD player to the RGB INPUT connector on the projector. For a DVD player without component video (Y,Cb,Cr) outputs, use common RCA cables (not provided) to connect a composite VIDEO output of the DVD player to the Video Input of the projector. 3. Turn on the projector and DVD player.

NOTE: Refer to your DVD player's owner's manual for more information about your DVD player's video output requirements, E22 Connecting Your VCR or Laser Disc Player VCR/ Laser disc player RG INP B UT AU OU DIO TP UT SCV P- IN OU T -CO IDTE N OU T RO OL IN S-V L R IDE O VID S-video cable (not supplied) White Red EO VID EO Audio equipment Document camera Audio cable (not supplied) VID L R EO White Red Video cable (not supplied) Use common RCA cables (not provided) to connect your VCR, laser disc player or document camera to your projector.



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To make these connections, simply: 1. Turn off the power to the projector and VCR, laser disc player or document camera. 2. Connect one end of your RCA cable to the video output connector on the back of your VCR or laser disc player, connect the other end to the Video input on your projector.

Use an audio cable (not supplied) to connect the audio from your VCR or laser disc player to your audio equipment (if your VCR or laser disc player has this capability). Be careful to keep your right and left channel connections correct for stereo sound. 3. Turn on the projector and the VCR or laser disc player.

NOTE: Refer to your VCR or laser disc player owner's manual for more information about your equipment's video output requirements.

E23 3. OPERATION This section describes how to select a computer or video source, how to adjust the picture, and how to customize the menu or projector settings. **Enlarging and Moving a Picture** You can enlarge the area you want up to 400 percent. To do so: 1) Press the POINTER button on the card remote control to display the pointer. **General Controls** Before you turn on your projector, ensure that the computer or video source is turned on and that your lens cap is removed. 1. Turn on the Projector Plug the supplied power cable in the wall outlet. The projector will go into its standby mode and the power indicator will glow orange. Only after you press the "POWER" button on the projector cabinet or the remote control will the power indicator turn to green and the projector become ready to use. NOTE: To turn the projector on by plugging in the power cable, use the menu and enable the "Auto Start" feature.

(See page E32.) NOTE: Regardless of the lamp mode setting, the lamp always stays in High-Bright mode for 3 minutes after the projector is turned on. If you have selected the Eco mode, the STATUS indicator blinks green and the lamp will change to Eco mode in 3 minutes. 2. Select the Computer or Video Source Press the Source button on the remote control or the projector cabinet to select "Video" (VCR, document camera, or laser disc player), S-Video" or "RGB" (computer or DVD with component output) to display the image. Or press the "Menu" button on the remote control or the cabinet and use the menu to select your video source: "Video", "S-Video" or "RGB". 3. Adjust the Image Size and the Focus Use the Zoom lever to adjust the image size, then use the Focus ring to obtain the best focus. Use the "Magnify" button (+) or (-) on the remote control to make the image larger up to 400%.

Turning off the Projector First press the "POWER" button on the projector cabinet or the remote control for a minimum of two seconds. The power indicator will glow orange. After the projector turns off, the cooling fans keep operating for 30 seconds. Do not disconnect the power cable during this time. Then, unplug the power cable.

The power indicator will go out. POINTER 2) Move the pointer to the area you want to enlarge. Vol. SELECT Vol. 3) Adjust the image size up to 400 percent.

MAGNIFY MAGNIFY IMPORTANT: · The projector should be unplugged if it will not to be used for an extended period. · To turn off the image and sound briefly (five minutes or less), use the "Picture Mute" button instead of turning the projector off and on. · The projector will display a black, blue image or logo if no input signal is present. · Do not turn the projector off and then immediately back on. The projector needs to cool for 30 seconds before it can be restarted. E24 Using the Menus NOTE: An interlaced motion video image may be blurred while the menu is displayed. 1. Press the "Menu" button on the remote control or the projector cabinet to display the Main Menu. 2. Press the vw buttons on the remote control or the projector cabinet to highlight the menu for the item you want to adjust or set.

3. Press the button or the "Enter" button on the remote control or the projector cabinet to select a submenu or item. 4. Adjust the level or turn the selected item on or off by using "Select" or buttons on the remote control or the projector cabinet. The on-screen slide bar will show you the amount of increase or decrease. 5. The change is stored until you adjust it again. ENTER: Stores the setting or adjustments. CANCEL: Return to the previous screen without storing settings or adjustments. 6.

Repeat steps 2-5 to adjust an additional item, or press "Cancel" on the remote control or the projector cabinet to quit the menu display. E25 MENU Tree Basic/ Advanced Menu Sub Menu (all) (all) (VCH) (VCH) (V) Hi-Bright/ Eco (all) (all) Items Normal/ Natural1/ Natural2 (all) Aspect Ratio Noise Reduction Color Matrix White Balance Auto Adjust Position/ Clock Resolution All Data/ Current Signal Normal/ Zoom/ Wide Zoom/ Cinema Off/ Low/ Medium/ High HDTV/ SDTV/ B-Y/R-Y, Cb/Cr, Pb/Pr Brightness R/G/B, Contrast R/G/B On/ Off Horizontal/ Vertical/ Clock/ Phase Auto/ Native (VCH) (VCH) (CH) (all) (R) (RH)/(R) (R) (all) (all) Menu Mode Basic/ Advanced English/ German/ French/ Italian/ Spanish/ Swedish/ Japanese Pointer 18 Source Display Volume Bar (Direct Button) Menu Display Time On/ Off On/ Off Manual/ Auto 3sec/ Auto 10sec/ Auto 30sec Signal Select RGB VIDEO/ S-VIDEO Auto Start Power Management Power Off Confirmation Keystone Save Clear Lamp Hour Meter Auto/ RGB/ Component Auto/ NTSC3.58/ NTSC4.43/ PAL/ PAL60/ SECAM On/ Off On/ Off On/ Off On/ Off Orientation Front/ Floor, Rear/Ceiling, Rear/Floor. Front/Ceiling Background Source Name Input Terminal Horizontal Frequency Vertical Frequency Sync Polarity Signal Type Video Type Sync Type Interlace Resolution Aspect Ratio Gamma Correction Noise Reduction Color Matrix Matrix Type Lamp Hour Meter Projector Usage Blue/ Black/ Logo NOTE: Adjustable sources R=RGB V=Video/S-Video C=Component H=HDTV All=All sources E26 Menu Elements Title bar Tab Highlight OK Button Cancel Button Solid triangle Check box Radio button Slide bar Menu windows or dialog boxes typically have the following elements: Title bar: Indicates the menu title.

Highlight: Indicates the selected menu or item. Solid triangle: Indicates further choices are available. A highlighted triangle indicates the item is active. Tab: Indicates a group of features in a dialog box. Selecting on any tab brings its page to the front.

Radio button: Use this round button to select an option in a dialog box. Check box: Place a checkmark in the square box to turn the option On. Slide bar: Indicates settings or the direction of adjustment. OK button: Press to confirm your setting. You will return to the previous menu. Cancel button: Press to cancel your setting. You will return to the previous menu. E27 Menu Descriptions & Functions Source Select Volume Adjusts the sound level of the projector.

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NOTE: You can display the volume bar without opening the menu. See "Volume Bar (Direct Button)" on page E-31 for more details.

Image Options Enables you to select a video source such as a VCR, DVD player, laser disc player, computer or document camera depending on what is connected to your inputs. Press the "Select" button on the projector cabinet or vw buttons on your remote control to highlight the menu for the item you want to adjust. Basic Mode Advanced Mode RGB Selects the computer connected to your RGB or component signal. NOTE: An optional component cable (Component V cable) is needed for a component signal. Video Selects what is connected to your Video input-VCR, laser disc player, DVD player or document camera. S-Video Selects what is connected to your S-Video input-VCR, DVD player, or laser disc player. NOTE: A frame may freeze for a brief period of time when a video is played back in fast-forward or fast-rewind with a Video or S-Video source. Provides optional controls such as Keystone Correction, Color Temperature and Lamp Mode. When you select Advanced Mode, the following options are available: Gamma Correction, Aspect Ratio, Noise Reduction, Color Matrix, White Balance, Auto Adjust, Position/Clock, Resolution, and Factory Default. Keystone This feature corrects the keystone (trapezoidal) distortion to make the top of the screen longer or shorter to be the same as the bottom.

Use the or buttons on the slide bar to correct the keystone (trapezoidal) distortion. Picture Keystone distortion Normal Provides access to controls for your image. Use the "Select" button on the projector cabinet or the remote control to highlight the menu for the item you want to adjust. Brightness Adjusts the brightness level or the back raster intensity. NOTE: The maximum keystone angle that can be corrected is 15 degrees upward and downward with the projector placed horizontally.

However, a picture will be blurred if you correct the keystone angle beyond +12 degrees or more for SXGA signal on VT440. Contrast Adjusts the intensity of the image according to the incoming signal. Color Temperature Color Increases or decreases the color saturation level (not valid for RGB). Hue Varies the color level from +/- green to +/-blue. The red level is used as reference.

This adjustment is only valid for Video and Component inputs (Not RGB). This feature adjusts the color temperature using the slide bar. Move the slide bar to the right to increase the color temperature for a bluish image; to the left to decrease it for a reddish image. Sharpness Controls the detail of the image for Video (Not for RGB and Component). E28 Lamp Mode Aspect Ratio This feature enables you to select two brightness mode of the lamp: High-Bright and Eco modes. The lamp life can be extended up to 3000 hours by using the Eco mode. High-Brigh Mode: This is the default setting. Eco Mode: Select this mode to increase the lamp life. NOTE: If you have selected the Eco mode, the lamp lights in HighBright mode for 3 minutes after the projector is turned on. After 3 minutes the lamp will change to Eco mode.

Aspect Ratio allows you to select the best Aspect mode to display your source image. When 4:3 is selected from the source (i.e. DVD player), the following selections will display: Normal Zoom Wide Zoom Cinema Gamma Correction (Advanced mode) A-Standard 4:3 Aspect B-All 4 sides stretched C-Left & Right stretched D-Left and right stretched When Anamorphic or 16:9 is selected from the source (i.e. DVD player), the following selections will display: Use the or buttons to choose "Normal" when in a lighted room and "Natural 1&2" when in a darkened room. "Natural 1" for better flesh tone; "Natural 2" for true reproduction of middle tones. Each mode is recommended for : Normal: the regular picture Natural 1: true color reproduction of natural tones Natural 2: dark portions of a picture Normal Zoom Wide Zoom Cinema A-16:9 image displayed in 4:3 mode B- All 4 sides stretched C- Left & right stretched D- Left and right stretched to display the true aspect Advanced Options (Advanced mode) Allows for adjustments of image position and stability. NOTE: Aspect Ratio is not available for "RGB". Noise Reduction: You can select three levels video noise reduction.

NOTE: The lower the Noise Reduction level, the better the image quality by way of higher video bandwidth. Color Matrix When you select Advanced Options in Advanced mode, the following options are available: Aspect Ratio, Noise Reduction, Color Matrix, White Balance, Auto Adjust, Position/Clock, Resolution, and Factory Default. First select an appropriate color matrix to fit your component signal for HDTV or SDTV. Then select an appropriate matrix type from B-Y/R-Y, Cb/Cr or Pb/Pr. NOTE: The Color Matrix feature is available for component video signal only.

E29 White Balance: Phase: Use this item to adjust the clock phase or to reduce video noise, dot interference or cross talk. (This is evident when part of your image appears to be shimmering.) Use the and buttons to adjust the image. Use "Phase" only after the "Clock" is complete. This adjustment is made automatically when the Auto Adjust is turned on.

Resolution (when Auto Adjust is off): This allows you to adjust the white balance. Brightness for each color (RGB) is used to adjust the black level of the screen; Contrast for each color (RGB) to adjust the white level of the screen. First use the up or down buttons to select R, G, or B for the brightness and the contrast. Next use the or buttons to adjust the level. Auto Adjust: This allows you to activate or deactivate the Advanced AccuBlend feature. Auto: Turns on the Advanced AccuBlend feature. The projector automatically reduces or enlarges the current image to fit the full screen. Native: Turns off the Advanced AccuBlend feature. The projector displays the current image in its true resolution. NOTE: While you are displaying an image with higher resolution than the projector's native resolution, even when you are in the Native mode, the image is displayed full screen using the Advanced AccuBlend feature.

When "Auto Adjust" is set to "On", the projector automatically determines the best resolution for the current RGB input signal to project an image using NEC's Advanced AccuBlend Intelligent Pixel Blending Technology. The image can be automatically adjusted for geometry and stability; "Horizontal Position", "Vertical Position", "Clock" and "Phase". On: Automatically adjusts image "Horizontal Position", "Vertical Position", "Clock" and "Phase". Off: User can adjust the image display functions ("Horizontal Position", "Vertical Position", "Clock" and "Phase") manually.



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Position/ Clock (when Auto Adjust is off) Factory Default (Advanced mode) Changes all adjustments and setting to the factory preset for each source individually except Lamp Usage Hours. (To reset the lamp usage time, see "Clear Lamp Hour Meter" on page E-32.) All Data: Current Signal: This allows you to manually adjust the image horizontally and vertically, and adjust Clock and Phase. Horizontal/Vertical Position: Adjusts the image location horizontally and vertically using the and buttons. This adjustment is made automatically when the Auto Adjust is turned on. Clock: Use this item with the "Auto Adjust off" to fine tune the computer image or to remove any vertical banding that might appear.

This function adjusts the clock frequencies that eliminate the horizontal banding in the image. Press the and buttons until the banding disappears. This adjustment may be necessary when you connect your computer for the first time. This adjustment is made automatically when the Auto Adjust is turned on. Reset all the adjustments and settings for all the signals to the factory preset.

Resets the adjustments for the current signal to the factory preset levels. The items that can be reset are: Picture, Color Temperature, Gamma Correction, Aspect Ratio, Noise Reduction, Color Matrix, White Balance, Position/Clock and Resolution. E30 Menu Menu Display Time (Advanced mode): This option allows you to select how long the projector waits after the last touch of a button to turn off the menu. The preset choices are "Manual", "Auto 3 sec", "Auto 10 sec", and "Auto 30 sec". The "Auto 30 sec" is the factory preset.

Manual

.. The menu can be turned off manually. Auto 3 sec

The menu will automatically be turned off in 3 seconds if no buttons are pressed within 3 seconds. Auto 10 sec

. The menu will automatically be turned off in 10 seconds if no buttons are pressed within 10 seconds. Auto 30 sec ...

.. The menu will automatically be turned off in 30 seconds if no buttons are pressed within 30 seconds. Allows you to set preferences for the on-screen menu.

Menu Mode: This feature allows you to select two menu modes: one has basic functionality and the other more advanced functionality. Basic Mode

..... This is the normal mode. Advanced Mode ...

This mode is used for advanced users. In this mode you can change the following settings: Gamma Correction, Aspect Ratio, Noise Reduction, Color Matrix, White Balance, Auto Adjust, Position/Clock, Resolution, Factory Default, Menu Display Time, Signal Select, Auto Start, Power Management, Power Off Confirmation and Keystone Save and Clear Lamp Hour Meter. Language: You can choose one of seven languages for on-screen instructions. The options are: English, German, French, Italian, Spanish, Swedish and Japanese. Projector Pointer: This enables you to select from eight different Pointer icons for the "Pointer" button on your remote control.

After moving your Pointer icon to the area you want on the screen, press the Magnify button on the remote control to enlarge the selected area on the screen. See page E-24 for more details. Setup Enables you to set operating options. Press "OK" to save your changes for all the features of Page1, Page2, and Page3.

[Page1] Orientation: This reorients your image for your type of projection.

The options are: front floor projection, rear ceiling projection, rear floor projection, and front ceiling projection. Background: Use this feature to display a black/ blue screen or logo when no signal is available. NOTE: There may be cases where the Pointer function is not available (ex. a non-interlace signal at 15kHz such as video game.) Source Display: You can turn on and off the information for input name such as VIDEO and RGB. When this option is on, the current input will be displayed each time you switch sources or turn on the projector. Volume Bar (Direct Button): This option turns on or off the volume bar when you adjust the sound volume using VOL+/(up and down) button. On ...

.....

.....

. You can increase or decrease the sound volume with the volume bar on screen. Off ...

.....

..... You can increase or decrease the sound volume without having to use the volume bar. E31 [Page2] (Advanced mode) Power Off Confirmation: This option determines whether a confirmation dialog for turning off the projector will appear or not. Keystone Save: This option enables you to save your current keystone settings. Saving your change once affects all sources. The changes are saved when you turn off the projector.

Clear Lamp Hour Meter: Resets the lamp clock back to zero. Pressing this button displays the "Are you sure?" confirmation dialog box. To reset the lamp usage hour meter, press "OK". NOTE: The projector will turn off and go into standby mode after 2100 hours (up to 3150 hours in Eco mode) of service. If this happens, press the "Help" button on the remote control for ten seconds to reset the lamp clock back to zero.

Do this only after replacing the lamp. Signal Select: <RGB> Allows you to choose "RGB" for an RGB source such as a computer, or "Component" for a component video source such as a DVD player. Normally select "Auto" and the projector automatically detects a component signal. However there may be some component signals that the projector is unable to detect. If this is the case, select "Component".

<Video & S-Video System Select> This feature enables you to select composite video standards manually. Normally select "Auto". When you select the video standard for Video and S-Video separately, first select the radio button and then select the video standard from the pull-down menu. This must be done for Video and S-Video respectively. [Page 3] (Advanced mode) Help Contents Provides an online help about how to use the menus. An underlined link means that you can move to an adjustment item directly. Selecting the underlined link and pressing ENTER moves to the corresponding adjustment item. Information Displays the status of the current signal and lamp usage. This dialog box has four pages. The information included are as follows: [Page 1] Source Name Input Terminal Horizontal Frequency Vertical Frequency Sync Polarity [Page 2] Signal Type Video Type Sync Type Interlace Resolution [Page 3] Aspect Ratio Gamma Correction Noise Reduction Color Matrix Matrix Type [Page 4] Lamp Hour Meter Projector Usage Auto Start: Turns the projector on automatically when the power cable is inserted into an active power outlet.

This eliminates the need to always use the "Power" button on the remote control or projector cabinet. Power Management: When this option is on and there is no RGB input for five minutes or more, the projector will automatically turn itself off. NOTE: This feature does not work with Video or S-Video sources. NOTE: The progress indicator shows the percentage of remaining bulb life. The value informs you of the amount of lamp and projector usage respectively.



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E32 4. MAINTENANCE This section describes the simple maintenance procedures you should follow to replace the lamp, clean the filter, and replace the batteries in the remote control. 3. Insert a new lamp housing until the lamp housing is plugged into the socket. **CAUTION:** Do not use a lamp other than the NEC replacement lamp (VT40LP).

Order this from your NEC dealer. Secure it in place with the two screws. Be sure to tighten the screws. Replacing the Lamp After your lamp has been operating for 2000 hours (up to 3000 hours in Eco mode) or longer, the "Status" light in the cabinet will go on and the message will appear. Even though the lamp may still be working, replace it at 2000 (up to 3000 hours in Eco mode) hours to maintain optimal projector performance.

CAUTION - DO NOT TOUCH THE LAMP immediately after it has been used. It will be extremely hot. Turn the projector off, wait a full minute, and then disconnect the power cable. Allow at least one hour for the lamp to cool before handling. · **DO NOT REMOVE ANY SCREWS** except the lamp cover screw and three lamp case screws.

You could receive an electric shock. · The projector will turn off and go into stand by mode after 2100 (up to 3150 hours in Eco mode) hours of service. If this happens, be sure to replace the lamp. If you continue to use the lamp after 2000 hours (up to 3150 hours in Eco mode) of use, the lamp bulb may shatter, and pieces of glass may be scattered in the lamp case. Do not touch them as the pieces of glass may cause injury. If this happens, contact your NEC dealer for lamp replacement. 1 A U T O E C S O U R A D J U S T M E N U C A N C E L S E L E C T S T A T U P O W E R S O ENTER N / O F F A E C ENTER T U S T A S 4. Reattach the lamp cover. Tighten the lamp cover screw. Be sure to tighten the screw.

J U S T To replace the lamp: 1. Loosen the lamp cover screw until the screwdriver goes into a freewheeling condition and remove the lamp cover. The lamp cover screw is not removable. C U R A E C N C E L L E S S O U C A R M 7 N C E L C T L E S O ENTER S O U R M E U T O N U A D T C C N C E L M O S S E L E C T C A F F O ENTER N / O C A S P O W 1 T U S T A S S T U T A E R S W O T U S T A P E 2 E C S O U R R P O W E R O ENTER N / O F F M E C A N C E L S E L E C T P O W O N / O F F ENTER 2 T U S T A S 1 2. Loosen the two screws securing the lamp housing until the screwdriver goes into a freewheeling condition. The two screws are not removable. Remove the lamp housing by pulling out the handle. **NOTE:** There is an interlock on this case to prevent the risk of electrical shock. Do not attempt to circumvent this interlock. T O A D J U S 3 5.

After you install a new lamp, select [Advanced Menu] [Setup][Page 3][Clear Lamp Hour Meter] to reset the lamp usage hours. **NOTE:** When the lamp exceeds 2100 hours (up to 3150 hours in Eco mode) of service, the projector cannot turn on and the menu is not displayed. If this happens, press the Help button on the remote control for a minimum of 10 seconds while in standby mode. When the lamp time clock is reset to zero, the STATUS indicator goes out. Interlock C A A E R C I S O U M E U N U T N C E L S E L E C T T U S T A S P O W E R O ENTER N / O F F 2 A U T O A D J U S T E C S O U R M E N U ENTER T U S T A S P O W E R C A N C E L S E L E C T E 3 3 P O W E R E R C A 2 S O U R M E U T O N U A D J U S T N C E L S E L E C T Remote Control Battery Installation [Wireless Card Remote Control] 1.

Press firmly and slide the battery cover off. **Cleaning or Replacing the Filters** The air-filter sponge keeps the inside of the MultiSync VT440/VT540 Projector free from dust or dirt and should be cleaned after every 100 hours of operation (more often in dusty conditions). If the filter is dirty or clogged, your projector may overheat. **CAUTION PAN H M nO 2- LiCELL 3 V C O** · Turn off the power and unplug the projector before replacing the filter. · Only clean the outside of the filter cover with a vacuum cleaner.

2 0 R L T S J A 2 5 2. Remove the old Lithium coin cell and install new one (CR2025). Ensure that the side with a "+" is facing up. · Do not attempt to operate the projector without a filter cover. · Your projector will not operate unless the filter cover is installed correctly. To clean the air-filter: Vacuum the filter-through the filter cover. N U M nO 2 0 R 2-LiCELL 3 V C L T O S J A P A N H 2 5 C A N S E C E L L E C T U R S O M E C E A U T O A D J U S T 3. Put the cover back. P C R G I N P B U T A U O U D T P U T I N O U T - C O N T R O L S - V I D E O V I D M nO 2 0 R 2-LiCELL 3 V C L T O S J A P A N H 2 5 To replace the air-filter: 1. Remove the filter cover by pushing up on the catch of the cover until you feel it detach.

P O W E R S T U S T A 2 1 1 2 2. Reinstall the new filter cover. **NOTE:** Do not detach the sponge from the filter cover. Do not wash the filter cover with soap and water. Soap and water will damage the the filter membrane. Before replacing the filter cover, remove dust and dirt from the projector cabinet. @@@@45 sec) Fixed at High-Bright mode. @@The projector reaches its end of life. @@The projector is in standby mode and cannot be turned on. The projector is in standby mode and cannot be turned on.

The projector is in standby mode and cannot be turned on. The projector is in standby mode and cannot be turned on. Lamp life has reached its end of life (2100 hours or over) Lamp or filter cover error (3 locations) Fan error Lamp error Temperature error Steady orange Steady orange Steady orange Steady orange Steady orange Steady red Blinking red (1 sec interval) Blinking red (8 sec interval) Blinking red (12 sec interval) Blinking red (4 sec interval) Common Problems & Solutions Problem Does not turn on Check These Items · Check that the power cable is plugged in and that the power button on the projector cabinet or the remote control is on. · Ensure that the lamp cover is installed correctly. See page E-33.

· Check to see if the projector has overheated or the lamp usage exceeds 2100 hours (3150 hours in Eco mode). If there is insufficient ventilation around the projector or if the room where you're presenting is particularly warm, move the projector to a cooler location. Use the menu to select your source (Video, S-Video or RGB).



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