MultiSync LCD1525X

User's Manual

NEC

Safety Instruction

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 TO QUALIFIED SERVICE PERSONNEL.

CAUTION

RISK OF ELECTRIC SHOCK • DO NOT OPEN

CAUTION

TO REDUCE THE RISK OF ELECTRIC SHOCK, MAKE SURE POWER CORD IS UNPLUGGED FROM WALL SOCKET. TO FULLY DISENGAGE THE POWER TO THE UNIT, PLEASE DISCONNECT THE POWER CORD FROM THE AC OUTLET. DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol warns user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any part inside this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

Caution:
When operating the MultiSync LCD1525X with a 220-240V AC power source in Europe except UK, use the power cord provided with the monitor.
In UK, a BS approved power cord with moulded plug has a Black (five Amps) fuse installed for use with this equipment. If a power cord is not supplied with this equipment please contact your supplier.
When operating the MultiSync LCD1525X with a 220-240V AC Power source in Australia, use the power cord provided with the monitor.
For all other cases, 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.
For detailed information about the power cord please contact your supplier or your NEC Sales Office.

Declaration of the Manufacturer

We hereby certify that the colour monitor
MultiSync LCD1525X (LA-1526HMW)
MultiSync LCD1525X (LA-1526HMW-BK)

are in compliance with

Council Directive 73/23/EEC:

- EN 60950

Council Directive 89/336/EEC:

- EN 55022
- EN 61000-3-2
- EN 61000-3-3
- EN 55024

and marked with CE

NEC-Mitsubishi Electric Visual Systems, Corp.
686-1, NISHIOI OI-MACHI
ASHIGARAKAMI-GUN
KANAGAWA 258-8533, JAPAN

Declaration of Conformity

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:	**NEC-Mitsubishi Electronics Display of America, Inc.**
Address:	**1250 N. Arlington Heights Road Itasca, Illinois 60143-1248**
Tel. No.:	**(630)467-3000**

Type of Product:	Computer Monitor
Equipment Classification:	Class B Peripheral
Models:	LA-1526HMW / LA-1526HMW-BK

FC *We hereby declare that the equipment specified above conforms to the technical standards as specified in the FCC Rules.*

For the Customer to use in U.S.A. or Canada

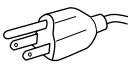
Canadian Department of Communications Compliance Statement

DOC: This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouiller du Canada.

C-UL: Bears the C-UL Mark and is in compliance with Canadian Safety Regulations according to C.S.A. C22.2 #950.
Ce produit porte la marque 'C-UL' et se conforme aux règlements de sûrele Canadiens selon CAN/CSA C22.2 No. 950.

FCC Information

1. Use the attached specified cables with the MultiSync LCD1525X colour monitor so as not to interfere with radio and television reception.
   (1) The power supply cord you use must have been approved by and comply with the safety standards of U.S.A., and meet the following condition.

Power supply cord	Non shield type, 3-conductor
Length	1.8 m
Plug shape	

   (2) Please use the supplied AC Adapter which is include in stand.
   (3) Shielded video signal cable.
   Use of other cables and adapters may cause interference with radio and television reception.
   (4) Please use supplied USB cable.

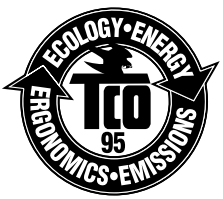
2. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate 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.

LA-1526HMW-BK

TCO’95

Congratulations! You have just purchased a TCO’95 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also, to the further development of environmentally adapted electronics products.



Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during the manufacturing. Since it is as yet not possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances will eventually enter the environment.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of conventional electricity generation have a negative effect on the environment (acidic and climate-influencing emissions, radioactive waste, etc.), it is vital to conserve energy. Electronics equipment in offices consume an enormous amount of energy since they are often left running continuously.

What does labelling involve?

This product meets the requirements for the TCO'95 scheme which provides for international and environmental labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industrial and Technical Development in Sweden).

The requirements cover a wide range of issues: environment, ergonomics, usability, emission of electrical and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands concern restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental plan which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a directive that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level. The length of time to reactivate the computer shall be reasonable for the user.

Labelled products must meet strict environmental demands, for example, in respect of the reduction of electric and magnetic fields, physical and visual ergonomics and good usability.

On the back page of this folder, you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

TCO Development Unit

S-114 94 Stockholm

Sweden

Fax: +46 8 782 92 07

Email: development@tco.se

Current information regarding TCO'95 approved and labelled products may also be obtained via the Internet, using the address:

http://www.tco-info.com/

TCO'95 is a co-operative project between **TCO** (The Swedish Confederation of Professional Employees), **Naturskyddsforeningen** (The Swedish Society for Nature Conservation) and **NUTEK** (The National Board for Industrial and Technical Development in Sweden).

Environmental Requirements

Brominated flame retardants

Brominated flame retardants are present in printed circuit boards, cables, wires, casings and housings. In turn, they delay the spread of fire. Up to thirty percent of the plastic in a computer casing can consist of flame retardant substances. These are related to another group of environmental toxins, PCBs, which are suspected to give rise to similar harm, including reproductive damage in fisheating birds and mammals, due to the bio-accumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

TCO'95 directive requires that plastic components weighing more than 25 grams must not contain organically bound chlorine and bromine.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning.

TCO'95 requirement permits the inclusion of lead since no replacement has yet been developed.

Cadmium**

Cadmium is present in rechargeable batteries and in the colourgenerating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses.

TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of cadmium. The colourgenerating layers of display screens must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches and back-light system. Mercury damages the nervous system and is toxic in high doses.

TCO'95 requirement states that batteries must not contain more than 25 ppm (parts per million) of mercury. It also demands that no mercury is present in any of the electrical or electronics components concerned with the display unit except the back-light system.

CFCs (freons)

CFCs (freons) are sometimes used for washing printed circuit boards and in the manufacturing of expanded foam for packaging. CFCs break down ozone and thereby damagethe ozone layer in the stratosphere, causing increased ultraviolet light to enter the earth's atmosphere with consequent increased risks of skin cancer (malignant melanoma).

The relevant TCO'95 requirement: Neither CFCs nor HCFCs may be used during the manufacturing of the product or its packaging.

* Bio-accumulative is defined as substances which accumulate within living organisms.
** Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.

LA-1526HMW

TCO'99

Congratulations! You have just purchased a TCO'99 approved and labeled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does labelling involve?

This product meets the requirements for the TCO'99 scheme which provides for international and environmental labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation) and Statens Energimyndighet (The Swedish National Energy Administration).

Approval requirements cover a wide range of issues: environment, ergonomics, usability, emission of electric and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Labelled products must meet strict environmental demands, for example, in respect of the reduction of electric and magnetic fields, physical and visual ergonomics and good usability.

Below you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

TCO Development

SE-114 94 Stockholm, Sweden

Fax: +46 8 782 92 07

Email (Internet): development@tco.se

Current information regarding TCO'99 approved and labelled products may also be obtained via the Internet, using the address:

http://www.tco-info.com/

Environmental requirements

Flame retardants

Flame retardants are present in printed circuit boards, cables, wires, casings and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chloride, and those flame retardants are chemically related to another group of environmental toxins, PCBs. Both the flame retardants containing bromine or chloride and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

The relevant TCO'99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Cadmium**

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries, the colour-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit.

CFCs (freons)

The relevant TCO'99 requirement states that neither CFCs nor HCFCs may be used during the manufacture and assembly of the product. CFCs.(freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with e.g. increased risks of skin cancer (malignant melanoma) as a consequence.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO'99 requirement permits the inclusion of lead since no replacement has yet been developed.

* Bio-accumulative is defined as substances which accumulate within living organisms
** Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.

Introduction to the NEC MultiSync LCD1525X

Congratulations on your purchase of the NEC MultiSync LCD1525X true colour monitor!

ambix Technology: Dual input technology allowing both analog and digital inputs through one connector (DVI-I) as well as additional legacy analog support through a traditional 15-pin VGA connector. Provides traditional MultiSync technology compatibility for analog as well as TMDS (Transition Minimized Differential Signal) based digital compatibility for digital inputs. TMDS-based digital interfaces include DVI-D, DFP and P&D.

DVI-I: The integrated interface ratified by the Digital Display Working Group (DDWG) that allows both digital and analog connectors through one port. The "I" stands for integration for both digital and analog. The digital portion is TMDS based.

DVI-D: The digital only subset of DVI ratified by the Digital Display Working Group (DDWG) for digital connections between computers and displays. As a digital only connector, analog support is not provided for through a DVI-D connector. As a TMDS based digital only connection, only a simple adapter is necessary for compatibility between DVI-D and other TMDS based digital connectors such as DFP and P&D.

DFP: Digital Flat Panel - An all digital interface for flat panel monitors signal compatible with DVI. As TMDS based digital only connection, only a simple adapter is necessary for compatibility between DFP and other TMDS based digital connectors such as DVI and P&D.

P&D: Plug and Display - The VESA standard for digital flat panel monitor interfaces. It is more robust than DFP since it allows for other options through a single connector (options like USB, analog video and IEEE-1394-995). The VESA committee has recognized that DFP is a subset of. P&D. As a TMDS based connector (for the digital input pins), only a simple adapter is necessary for compatibility between P&D and other TMDS based digital connectors such as DVI and DFP.

Dual Inputs: The MultiSync LCD1525X offers dual inputs, allowing you to connect the monitor to two systems. You can easily switch between computers with a touch of a button on the MultiSync LCD1525X front control panel.

USB Hub: The MultiSync LCD1525X has a USB Hub, two upstream ports and four downstream ports. You can use two sets of computers by one LCD1525X.

Reduced Footprint: Provides the ideal solution for environments requiring superior image quality but with size and weight limitations. The monitor's small footprint and low weight allow it to be moved or transported easily from one location to another.

Colour Control System: Allows you to adjust the colours on your screen and customize the colour accuracy of your monitor to a variety of standards.

OSM (On-Screen Manager) Controls: Allow you to quickly and easily adjust all elements of your screen image via simple to use on-screen menus.

ErgoDesign Features: Enhance human ergonomics to improve the working environment, protect the health of the user and save money. Examples include OSM controls for quick and easy image adjustments, tilt/swivel base for preferred angle of vision, small footprint and compliance with MPRII guidelines for lower emissions.

Plug and Play: The Microsoft® solution with the Windows® operating system facilitates setup and installation by allowing the monitor to send its capabilities (such as screen size and resolutions supported) directly to your computer, automatically optimizing display performance.

IPM (Intelligent Power Manager) System: Provides innovative power-saving methods that allow the monitor to shift to a lower power consumption level when on but not in use, saving two thirds of your monitor energy costs, reducing emissions and lowering the air conditioning costs of the workplace.

Multiple Frequency Technology: Automatically adjusts monitor to the display card's scanning frequency, thus displaying the resolution required.

FullScan Capability: Allows you to use the entire screen area in most resolutions, significantly expanding image size.

Contents

Your new NEC MultiSync LCD monitor box should contain the following:

NEC MultiSync LCD1525X
monitor with DVI-A to VGA Cable.

- NEC MultiSync LCD1525X.
- AC Power Cable.
- DVI-A to VGA Cable.
- DVI-D to DVI-D Video Signal Cable.
- USB Cable.
- CD-ROM includes complete User's Manual in PDF format (1525X.pdf) and Windows related files (Inf file and color profile). To see the complete User's Manual, Acrobat Reader 4.0 must be installed on your PC.
- User's Manual.

Remember to save your original box and packing material to transport or ship the monitor.

Recommended Use

Safety Precautions and Maintenance

For optimum performance, please note the following when setting up and using the MultiSync LCD colour monitor:

- **DO NOT OPEN THE MONITOR.** There are no user serviceable parts inside and opening or removing covers may expose you to dangerous shock hazards or other risks. Refer all servicing to qualified service personnel.
- 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 monitor.
- Do not spill any liquids into the cabinet or use your monitor near water.
- Do not insert objects of any kind into the cabinet slots, as they may touch dangerous voltage points, which can be harmful or fatal or may cause electric shock, fire or equipment failure.
- Do not place any heavy objects on the power cord. Damage to the cord may cause shock or fire.
- Do not place this product on a sloping or unstable cart, stand or table, as the monitor may fall, causing serious damage to the monitor.
- 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 that is easily accessible.
- When operating the MultiSync LCD monitor with its AC100-240V power supply, use a power supply cord that matches the power supply voltage of the AC power outlet being used. The power supply cord you use must have been approved by and comply with the safety standards of your country.
- Handle with care when transporting. Save packaging for transporting.
- The inside of the fluorescent tube located within the LCD monitor contains mercury. Please follow the bylaws or rules of your local municipality to dispose of this tube properly.
- Do not bend power cord.
- Do not use monitor in high temperatured, humid, dusty, or oily areas.
- Do not cover vent on monitor.

- If monitor is broken, do not come in contact with the liquid crystal.
- If glass is broken. Handle with care.

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 is damaged.

CORRECT PLACEMENT AND ADJUSTMENT OF THE MONITOR CAN REDUCE EYE, SHOULDER AND NECK FATIGUE. CHECK THE FOLLOWING WHEN YOU POSITION THE MONITOR:

- For optimum performance, allow 20 minutes for warm-up.
- Adjust the monitor height so that the top of the screen is at or slightly below eye level. Your eyes should look slightly downward when viewing the middle of the screen.
- Position your monitor no closer than 40 cm and no further away than 70 cm from your eyes. The optimal distance is 53 cm for the MultiSync LCD1525X monitor.
- Rest your eyes periodically by focusing on an object at least 6 m away. Blink often.
- Position the monitor at a 90° angle to windows and other light sources to minimize glare and reflections. Adjust the monitor tilt so that ceiling lights do not reflect on your screen.
- If reflected light makes it hard for you to see your screen, use an anti-glare filter.
- Clean the LCD monitor surface with a lint-free, non-abrasive cloth. Avoid using any cleaning solution or glass cleaner!
- Adjust the monitor's brightness and contrast controls to enhance readability.
- Use a document holder placed close to the screen.
- Position whatever you are looking at most of the time (the screen or reference material) directly in front of you to minimize turning your head while you are typing.
- Avoid displaying fixed patterns on the monitor for long periods of time to avoid image persistence (after-image effects).
- Get regular eye checkups.

Installation

To attach the MultiSync LCD1525X monitor to your system, follow these instructions:

1. Turn off the power of your computer.
2. **For the PC with DVI digital output:** Connect the DVI-D to DVI-D signal cable to the connector of the display card in your system (**Figure A.1**). Tighten all screws.

   For the PC with analog output: Connect the DVI-A to VGA cable to the connector of the display card in your system (**Figure A.2**).
   To connect a secondary PC with analog output, connect the MultiSync LCD1525X D-SUB to D-SUB (not included) cable to the connector of the display card in your system.

   For the Mac: Connect the MultiSync Macintosh cable adapter to the computer (**Figure B.1**). Attach the 15-pin mini D-SUB signal cable to the MultiSync Macintosh cable adapter (**Figure B.1**).

   NOTE: Macintosh G3 and G4 do not need a Macintosh cable adapter.

3. Remove connector cover and cable cover. Connect the DVI signal cable to the connector on the back of the monitor. Place the DVI video signal cable under Clip **A**.
   Replace connector cover and cable cover.
4. Using the USB cable, connect the B type connector to the USB upstream port on the back of the monitor and A type connector to the downstream part on the computer (**Figure D.1**). If you are using the cord from the USB device, use one of the downstream ports on the side of the monitor (**Figure E.1**).

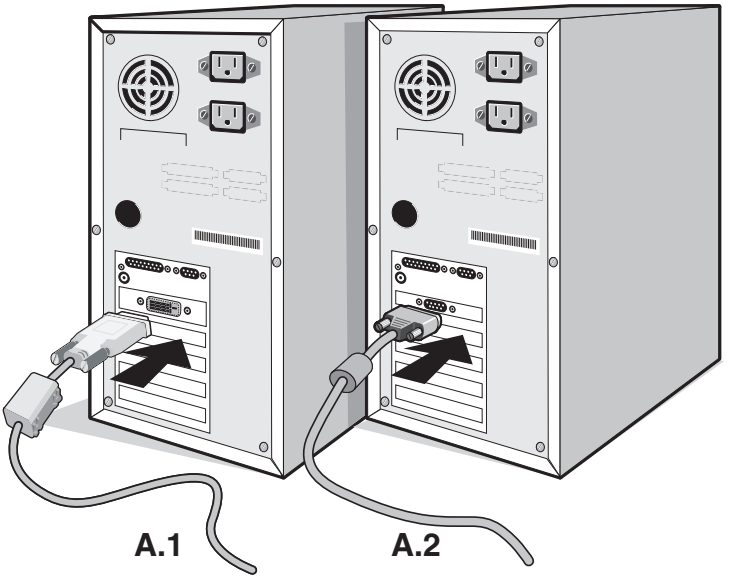
   NOTE: Incorrect cable connections may result in irregular operation, damage display quality/components of LCD module and/or shorten the module's life.

5. Connect one end of the power cord to the MultiSync LCD Series monitor and the other end to the power outlet (**Figure F.1**).
6. Turn on the monitor (**Figure G.1**) and the computer.

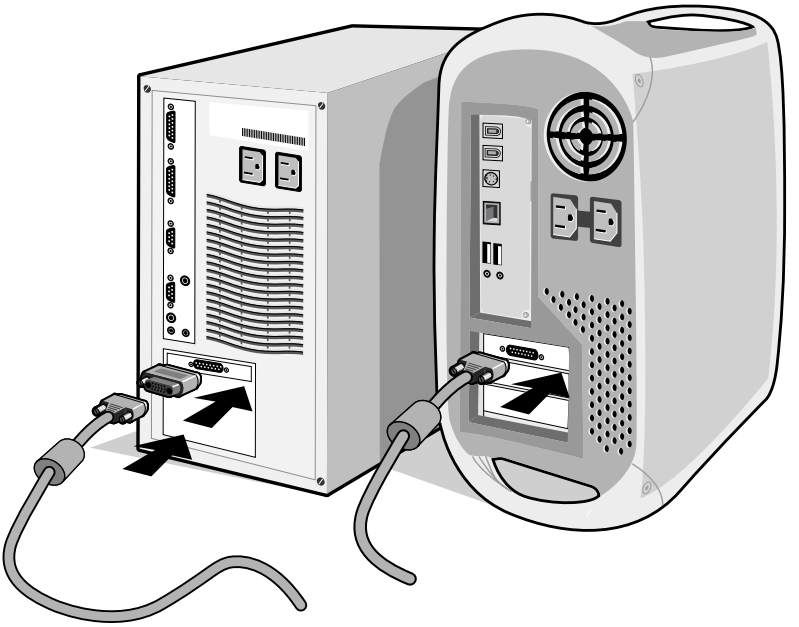
7. To complete the setup of your MultiSync LCD monitor, use the following OSM controls:
   - Auto Adjust Contrast
   - Auto Adjust

   Refer to the Controls section of this User's Manual for a full description of these OSM controls.

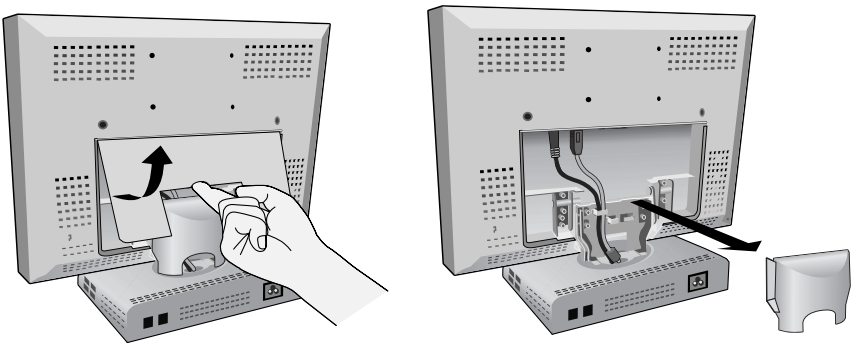
NOTE: If you have any problems, please refer to the **Troubleshooting** section of this User's Manual.

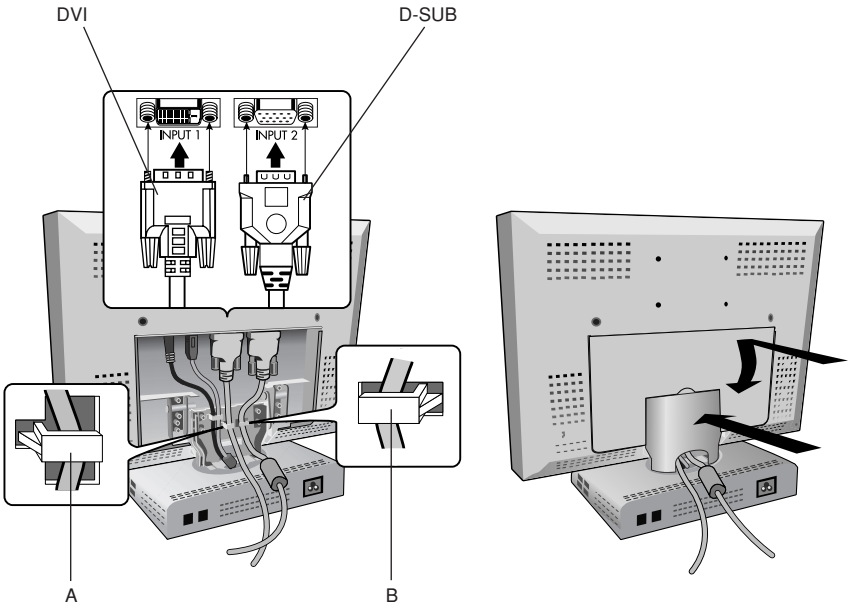


A.1 A.2

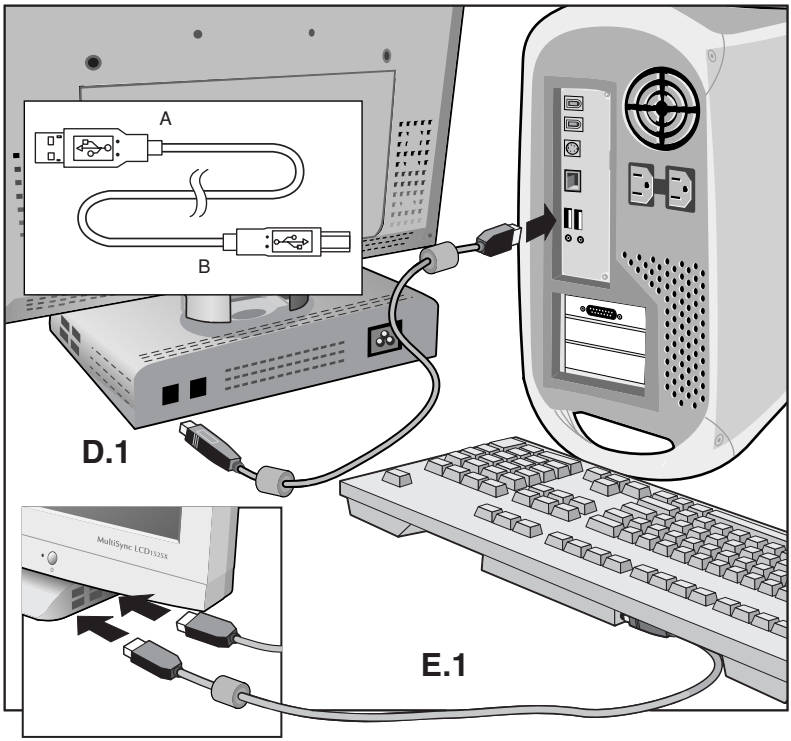


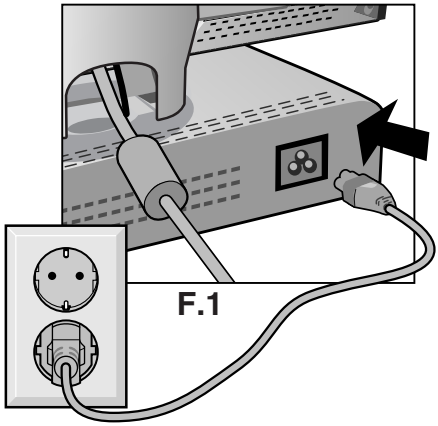
B.1 B.2





C.1


A
B
D.1
E.1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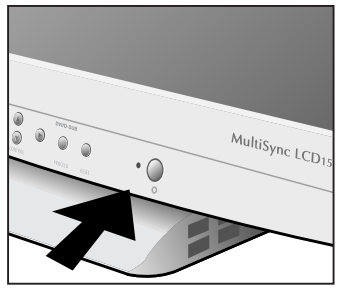

G.1

Controls

INPUT SELECT

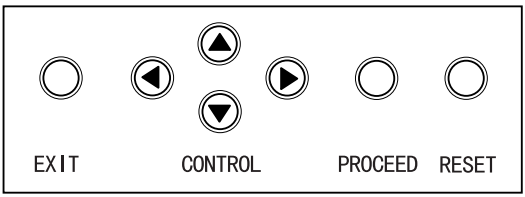
If no OSM menu is displayed, video input and USB upstream can be changed by pressing the PROCEED button.

▲: changing only video

▼: changing video and USB

OSM Controls

The OSM controls on the front of the monitor provide the following functions:



To access OSM press any of the control buttons (◄, ►, ▲, ▼) or the PROCEED button

	Main Menu	Sub-Menu
EXIT	Exits the OSM controls.	Exits to the OSM controls main menu.
CONTROL ▲/▼	Moves the highlighted area up/down to select one of the controls.	Moves the highlighted area up/down to select one of the controls.
CONTROL ◄/►	Proceeds to the selected menu choice (indicated by the highlighted area).	Moves the bar in the + or - direction to increase or decrease the adjustment.
PROCEED	Has no function.	Activates Auto Adjust feature. In Tool and Information Mode, opens additional window.
RESET	Resets the highlighted control menu to the factory setting.	Resets the higlighted control to the factory setting.

NOTE: When RESET is pressed, a warning window will appear allowing you to cancel the RESET function.

Brightness and Contrast

This function is control of brightness and video contrast.

BRIGHTNESS
Adjusts the overall image and background screen brightness.

CONTRAST
Adjusts the image brightness in relation to the background.

AUTO ADJUST (Analog Input Only)
Corrects the image displayed for non-standard video inputs.

Auto Adjust (Analog Input Only)

Adjusts the Position, H. size and Fine controls.

Position (Analog Input Only)

This function controls image position within the display area of the LCD.

LEFT/RIGHT
Position control for horizontal image position.

DOWN/UP
Position control for vertical image position.

AUTO ADJUST
Automatically sets the horizontal and vertical image position within the display area of the LCD.

Image Adjust (Analog Input Only)

H. SIZE
Adjusts the horizontal size by increasing or decreasing this setting.

FINE
This function is used for adjustment of the delay of internal clock to arrange image focus. Factory setting is ”Zero” as minimum value.

AUTO ADJUST

Automatically adjusts the H. Size or Fine settings.

RGB Colour Control System

Preset 1, 2, 3, 4, 5

Colour presets 1 trough 5 selects the desired colour setting.

Each colour setting is adjusted the factory to that stated degree Kelvin. If a setting is adjusted, the name of setting will change from degree Kelvin to Custom.

Colour Gain RED, GREEN, BLUE

This function is controls the video contrast of R/G/B independently. The change in colour will appear on screen and the direction (increase or decrease) will shown Colour gain control range is from about 0% to 100%.

Factory setting is preset number 2, and R,G,B setting value is 100%.

Tools

LANGUAGE

OSM control menus are available in seven languages.

OSM POSITION

You can choose where you would like the OSM control image to appear on your screen. Selecting OSM Location allows you to manually adjust the position of the OSM control menu left, right, up or down.

OSM TURN OFF

The OSM control menu will stay on as long as it is in use. In the OSM Turn Off sub-menu, you can select how long the monitor waits after the last touch of a button to shut off the OSM control menu. The preset choices are 10, 20, 30, 60 and 120 seconds.

OSM LOCK OUT

This control completely locks out access to all OSM control functions. When attempting to activate OSM controls while in the Lock Out mode, a screen will appear indicating the OSM controls are locked out. To activate the OSM Lock Out function, simultaneously press and hold down the PROCEED and ▲ buttons. To deactivate the OSM Lock Out mode, again simultaneously press and hold down the PROCEED and ▲ buttons.

VIDEO DETECT

Selects the method of video detection when two computers are connected.

NONE

The Monitor will never switch ports automatically, only by user control.

FIRST DETECT

The video input has to be switched to “FIRST DETECT” mode. When 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.

LAST DETECT

The video input has to be switched to the “LAST DETECT” mode. When the monitor is displaying a signal from the current source and a new secondary source is supplied to the monitor, then the monitor will automatically switch to the new video source. When 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.

DVI SELECTION

This function is selected the DVI input mode. When the DVI selection has been changed, you must restart your computer.

DIGITAL

DVI digital input is available.

ANALOG

DVI analog input is available.

FACTORY PRESET

Selecting Factory Preset allows you to reset all OSM control settings back to the factory settings. The RESET button will need to be held down for several seconds to take effect. Individual settings can be reset by highlighting the control to be reset and pressing the RESET button.

RESOLUTION NOTIFIER

This optimal resolution is 1024 x 768. If ON is selected, a message will appear on the screen after 30 seconds, notifying you that the resolution is not at 1024 x 768.

Information

DISPLAY MODE

Provides information about the current resolution display and technical data including the preset timing being used and the horizontal and vertical frequencies.

MONITOR INFO

Indicates the model and serial numbers of your monitor.

OSM Warning

No Signal: This function gives a warning when there is no signal present. After power is turned on or when there is a change of input signal or video is inactive, the No Signal window will appear. The PROCEED button opens the DVI SELECTION CONTROL, as indicated in the section for DVI selection.

Resolution Notifier: This function gives a warning of use with optimized resolution. After power is turned on or when there is a change of input signal or the video signal doesn't have proper resolution, the Resolution Notifier window will open. This function can be disable in the TOOL menu.

Out of Range: This function gives a recommendation of the optimized resolution and refresh rate. After the power is turned on or there is a change of input signal or the video signal doesn't have proper timing, the Out Of Range menu will appear. The PROCEED button opens the DVI SELECTION CONTROL, as indicated in the section for DVI selection.

Check Cable: This function will advise you to check all Video Inputs on the monitor and computer to make sure they are properly connected.

Specifications

Monitor Specifications		MultiSync LCD1525X
Display		38 cm (15.0 inch) viewable image size; 1024 x 768 native resolution (Pixel Count); active matrix; thin film transistor (TFT); liquid crystal display (LCD); 0.30 mm dot pitch; 200 cd/m^2 white luminance, typical; 350:1 contrast ratio, typical
Input Signal (Analog)	Video: Sync:	ANALOG 0.7 Vp-p/75 Ohms Separate sync. TTL Level Horizontal sync. Positive/Negative Vertical sync. Positive/Negative
Input Signal (Digital)		TMDS
Display Colours		16777216 colors (Depends on the graphics board)
Synchronization Range	Horizontal: Vertical:	24.8 kHz to 60.0 kHz (Automatically) 56.2 Hz to 75.1 Hz (Automatically)
Resolutions Supported	Analog input: Digital input:	720 x 400*: VGA text 640 x 480* at 60 Hz to 75 Hz 800 x 600* at 56 Hz to 75 Hz 832 x 624* at 75 Hz 1024 x 768 at 60 Hz to 75 Hz 640 x 400* at 60 Hz 720 x 400* at 60 Hz to 70 Hz 640 x 480* at 60 Hz to 75 Hz 800 x 600* at 56 Hz to 75 Hz 832 x 624* at 75 Hz 1024 x 768 at 60 Hz to 75 Hz
Active Display Area**	Horizontal: Vertical:	304 mm 228 mm
Power Supply		AC 100-240 V @50/60 Hz
Current Rating		0.75 A @ 100-120 V / 0.45 A @ 220-240 V
Dimensions		370 (W) x 360 (H) x 158 (D) mm
Weight		4.5 kg
Environmental Considerations		
	Operating Temperature: Humidity: Storage Temperature: Humidity:	5 °C to 35 °C 30% to 80% -10 °C to +60 °C 10% to 85%

* Interpolated Resolutions: When resolutions are shown that are lower than the pixel count of the LCD module, text may appear different. This is normal and necessary for all current flat panel technologies when displaying non-native resolutions full screen. In flat panel technolo-gies, each dot on the screen is actually one pixel, so to expand resolutions to full screen, an interpolation of the resolution must be done.

** Active display area is dependent upon the signal timing.

NOTE: Technical specifications are subject to change without notice.

Troubleshooting/Support

No picture

- The signal cable should be completely connected to the display card/ computer.
- The display card should be completely seated in its slot.
- Power button and computer power switch should be in the ON position.
- Check to make sure that a supported mode has been selected on the display card or system being used. (Please consult display card or system manual to change graphics mode.)
- Check the monitor and your display card with respect to compatibility and recommended settings.
- Check the signal cable connector for bent or pushed-in pins.
- Check the cables of Video input 1 or Video input 2 to make sure they are properly connected. Then make sure the input select is set to the proper Video input.
- Check the DVI Selection in OSM.

Power Button does not respond

Unplug the power cord of the monitor from the AC outlet to turn off and reset the monitor, or simultaneously press the RESET and Power buttons.

Image persistence

Image persistence is when a “ghost” of an image remains on the screen even after the monitor has been turned off. Unlike CRT monitors, LCD monitors’ image persistence is not permanent. To alleviate image persistence, turn the monitor off for as long as an image was displayed. If an image was on the monitor for one hour and a “ghost” of that image remains, the monitor should be turned off for one hour to erase the image.

NOTE: As with all personal display devices, NEC recommends using a screen saver at regular intervals whenever the screen is idle.

Image is unstable, unfocused or swimming is apparent

- Signal cable should be completely attached to the computer.
- Use the OSM Image Adjust controls to focus and adjust display by increasing or decreasing the Fine Control.
  When the display mode is changed, the OSM Image Adjust settings may need to be re-adjusted.
- Check the monitor and your display card with respect to compatibility and recommended signal timings.
- If your text is garbled, change the video mode to non-interlace and use 60 Hz refresh rate.

LED on monitor is not lit (no green or amber colour can be seen)

- Power Switch should be in the ON position and power cord should be connected.
- Make certain the computer is not in a power-saving mode (touch the keyboard or mouse).

Display image is not sized properly

- Use the OSM Image Adjust controls to increase or decrease the H. Size.
- Check to make sure that a supported mode has been selected on the display card or system being used. (Please consult display card or system manual to change graphics mode.)

USB Hub does not operate

- Check to make sure the USB cord is properly connected. Refer to your USB device User's Manual.
- Check the OSM INPUT SELECT and the USB input connector on the back of the monitor.

No Video

- If no video is present on the screen, turn the Power button off and on again.