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LCD SERIES

NEC

THIN-FRAME FAMILY

MultiSync® LCD1550V™, MultiSync LCD1550M™, MultiSync LCD1550X™ and MultiSync LCD1850X™



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NEC/MITSUBISHI
NEC-MITSUBISHI ELECTRONICS DISPLAY

FEATURES AND BENEFITS

Thin-frame design frees up even more horizontal desktop space for multiple-monitor applications and eliminates eye-distracting plastic, allowing you to see more of your ideas and less of the bezel

Low power consumption and reduced emissions conserve energy and lower total cost of ownership

High-bright backlight delivers superior performance for readability and clarity

No Touch Auto Adjust provides optimal display settings upon initial power-on

Cabinet color options of white or black allow you to match your system, laptop or work environment

OmniColor technology achieves standard sRGB color to create a consistent color environment and provides 6-axis color control for the utmost in color calibration (available on the MultiSync LCD1550X and MultiSync LCD1850X)

Ambix technology allows for digital and analog connectivity (MultiSync LCD1550X and MultiSync LCD1850X)

XtraView+ technology allows for the widest viewing angles available without off-angle color shift (MultiSync LCD1550X and MultiSync LCD1850X)

Portrait/landscape capability and adjustable stand add flexibility to your viewing preferences (MultiSync LCD1550X and MultiSync LCD1850X)



NEC's MultiSync sound bar, manufactured by Onkyo, can be attached to the MultiSync LCD1550X and MultiSync LCD1850X in either portrait (pictured) or landscape orientation. See the cover image for an illustration of the sound bar attached in the monitor's landscape position.

Optional sound bar attachment creates a multimedia-enhanced monitor solution (MultiSync LCD1550X and MultiSync LCD1850X)

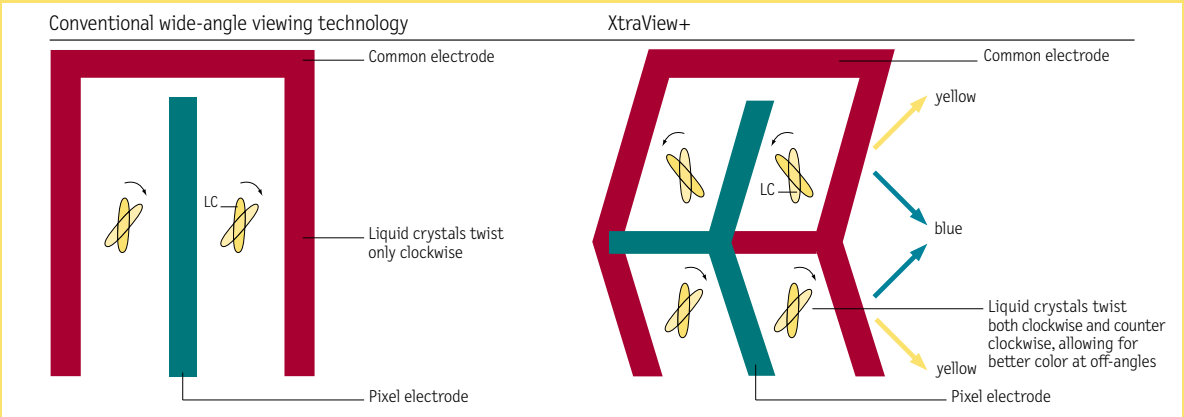
On Screen Manager (OSM) puts you in complete control of display setting adjustments

Touch or protective glass integration-enabling design increases application options (MultiSync LCD1550V and MultiSync LCD1850X)

LiquidView™ bundled software delivers easier, high-resolution readability by allowing for largest font/icon/tool and task bar sizes at native resolution (MultiSync LCD1850X)

NEC-Mitsubishi's quality and reliability provide peace of mind with a limited 3-year parts and labor warranty (including backlight) and 24/7 customer service and technical support

Widen your visual experience with XtraView+ technology



XtraView+ not only offers the widest viewing angles in the industry (170° horizontal and vertical), it significantly reduces color shift during off-angle viewing, for color vibrancy at any viewing angle.

LCD monitors with

THIN-FRAME DESIGN

featuring high-end benefits for space-conscious users.

Space efficiency is increasingly an issue in environments such as financial trading floors and call centers, as well as government and corporate settings. Designed to address this matter, the next generation of thin-frame LCD monitors from NEC-Mitsubishi Electronics Display eliminates the desktop clutter and cramped spaces created by bulky CRT monitors. In addition, the 15" NEC MultiSync LCD1550V, MultiSync LCD1550M and MultiSync LCD1550X and the 18" NEC MultiSync LCD1850X let you see more of your work and less of your monitor's frame.



A thin frame and overall dynamic design free up even more valuable space for multiple-monitor applications such as stacking on financial trading desks.

The sleek cabinet design of the thin-frame family monitors, which are available in both white and black to match your system, laptop, or work environment, allows you to situate more monitors side-by-side on individual desks or wall mounts. This not only helps users increase their viewing area but, in turn, adds to overall productivity and saves corporate overhead dollars by consuming less floor space.

In addition to delivering this revolutionary benefit, these newly-designed models put you at the forefront of monitor technology with outstanding image quality and a host of high-end features that enhance your visual experience.

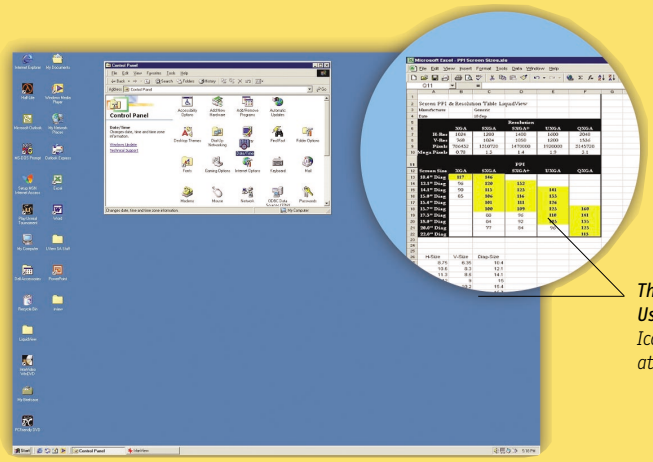
Attention-grabbing screen performance. These flat-panel displays deliver precise, flicker-free images and crystal-clear text you won't want to take your eyes off. With brightness levels up to 300 cd/m^2, they boast some of the brightest mainstream LCD displays to date. The flat screen surface reduces glare and reflection while enhancing contrast and clarity. As a result, users experience significantly less eyestrain and fatigue when compared to a traditional CRT monitor. The benefits of this surface are complemented by NEC's award-winning display that delivers unprecedented focus, purity and bright colors.

With XtraView+™ wide-angle viewing technology (featured on the MultiSync LCD1550X and MultiSync LCD1850X), you can enjoy flexible 170° horizontal and vertical viewing angles (85° up, down, left and right) with reduced color shift and less glare, reflection and distortion.

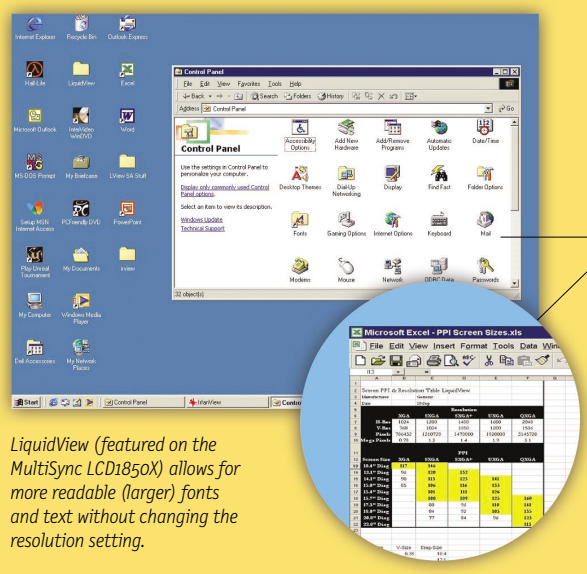


A height-adjustable stand not only increases viewing comfort but allows for additional desktop space.

Wide compatibility for today and tomorrow. Ambix™ technology (featured on the MultiSync LCD1550X and MultiSync LCD1850X) bridges the gap between analog and digital systems by allowing the same monitor to work seamlessly in either environment, quickly and easily from a single DVI-I connector. A second analog input also is provided with a traditional 15-pin VGA connector, which allows for legacy analog-only connection and for easier and less costly connection with the 13W3 connectors most prevalent on Sun® workstations. Digital connectors such as DFP and P&D also are compatible via adapters. With the easy-to-use DVI connector system, which provides greater performance than standard VGA systems, the display indicates analog or digital mode and configures the system accordingly for optimal screen resolution. This dual-input technology guarantees compatibility with today's computer systems and is on the forefront of tomorrow's digital output. A standard in the industry for many years, the easy-to-recognize VGA connector ensures hassle-free equipment swaps during technology upgrades. In addition, low-cost VGA signal cables can be easily obtained to replace lost cables or to facilitate switching monitors between desks.



The Standard Desktop and Application User Interface without LiquidView *Icons, text and graphics are smaller at high resolution.*



LiquidView Enhanced Display and Application *At the same high resolution, icons, text and other navigational tools are larger and easier to see.*

LiquidView (featured on the MultiSync LCD1850X) allows for more readable (larger) fonts and text without changing the resolution setting.

Achieve accurate, consistent color. Color accuracy is increasingly important as e-commerce, video editing and digital photography become more commonplace in the computing world. The thin-frame family (with the exception of the MultiSync LCD1550V and LCD1550M) comes equipped with NEC-Mitsubishi's OmniColor™ technology, which enables sRGB color matching for precise reproduction of still images, moving pictures and real-time videos. All NEC-Mitsubishi monitors equipped with OmniColor are specifically designed to meet the stringent requirements established for sRGB (standard RGB) color matching. With sRGB, on-screen colors can be reproduced with exactness in many applications, such as documents created via printers set to a corresponding setting. In addition, OmniColor allows the individual and precise adjustment of any one of the 6-axis color data (red, yellow, green, cyan, blue and magenta) without affecting the others.

The initiative to develop a standard to unify the numerous inconsistent color systems was driven by Microsoft, along with manufacturers of peripheral devices such as printers, monitors, scanners and digital cameras. The goal of this joint effort was to offer customers the assurance of similar color reproduction on all input and output devices. By working together, the new Windows XP operating system and hardware designed for sRGB allow for simple, straightforward color matching for all desktop users. To take advantage of the benefits of this new color standard using an OmniColor-equipped NEC-Mitsubishi monitor, users simply select the "sRGB" setting in the color menu of the On Screen Manager (see Figure A).

Experience superior font smoothing. NEC-Mitsubishi monitors featuring OmniColor deliver the additional benefit of crisper, more legible fonts by optimizing the capabilities of Microsoft's new font-handling software, ClearType™. ClearType, originally designed by Microsoft to enhance resolution for e-Books, is now being included with its standard Windows XP operating system, specifically for use with color LCD monitors. By addressing the LCD at the sub-pixel level, ClearType, in essence, allows you to triple the resolution of black and white text.

While ClearType can enhance font smoothing (elimination of the "jaggies") on all flat panel

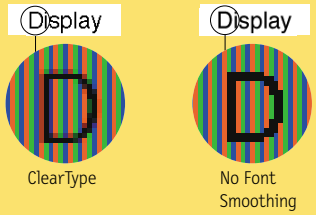
Figure A







monitors, those that enable sRGB support can take the greatest advantage of this technology and deliver the crispest font images. When monitors that are not sRGB-compliant are ClearType enabled, the font images can exhibit "color fringing" or "color bleeding". NEC-Mitsubishi monitors featuring OmniColor eliminate this flaw because sRGB delivers optimal gamma settings for the smoothest font lines without color bleeds.



This diagram demonstrates ClearType legibility vs. no font smoothing. NEC-Mitsubishi's OmniColor enables sRGB, which further refines font smoothing to render maximum readability.

Easy setup right out of the box. No Touch Auto Adjust eliminates the hassle of adjusting screen controls to reach preferred settings when first hooking up a new system. When turning on these monitors for the first time, the monitor and video card communicate to automatically adjust screen settings for optimal viewing.

Flexible viewing options. The thin-frame family boasts numerous features that enable alternatives to standard display viewing. On the MultiSync LCD1550X and MultiSync LCD1850X, the portrait/landscape capability enables you to easily change the orientation of the monitor, while a height-adjustable stand further increases viewing comfort and allows for additional desktop space. For those interested in completely eliminating the desktop space used by a monitor, the wall/arm mounting capabilities featured with all of the thin-frame monitors allow for positioning in a variety of out-of-the-way locations.



MultiSync LCD1850x



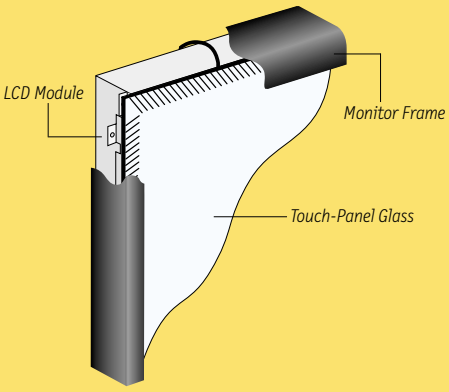
MultiSync LCD1810x

With a thin-frame design that saves at least 12% horizontal desktop space compared to traditional LCD models, these monitors deliver a virtual single-monitor view in multiple-monitor environments.

Ear-pleasing multimedia capabilities. The optional MultiSync sound bar, manufactured by Onkyo™, a world leader in sound technology, is attachable in both portrait and landscape views (for the MultiSync LCD1550X and MultiSync LCD1850X) and available in white and black. This option enhances your computing experience with exceptional sound quality and allows you to install speakers only on the units desired, which saves money for users with multiple monitor applications. The MultiSync LCD1550M features built-in multimedia speakers that deliver crisp sound for all of your computer's applications.

Complete control of display settings. The thin-frame family features NEC-Mitsubishi's fourth-generation On Screen Manager (OSM®) on-screen controls, the most precise monitor adjustments available. A touch of the up-front controls activates the OSM, giving you access to a comprehensive set of adjustments and an expanded display mode, plus monitor information such as vertical refresh rate, model number and serial number.

Easy touch or protective glass integration options (featured on the MultiSync LCD1550V and MultiSync LCD1850X). Companies authorized through NEC-Mitsubishi's Authorized Integrator Program (AIP) can easily integrate a host of third-party touch and protective glass solutions from various manufacturers. Given the many types of available touch technologies and the fact that no one technology is ideal for every application, this option provides a choice of the best solution for installation in a timely fashion. The AIP also allows users to achieve a full manufacturer's warranty and full certifications. Third-party protective glass adds durability to the monitor's screen surface for more demanding applications such as industrial workplaces, rugged trading environments or locations subject to harsh weather conditions.



A smart investment. Using up to 70% less power and emitting less heat than comparable CRT monitors, these thin-frame monitors allow you to conserve energy and lower your total cost of ownership. These advantages, combined with many advanced features, make these models smart investments as soon as they're taken out of the box. The thin-frame family of monitors are some of the first to be certified to ISO 13406-2 standards, which obliges the panel manufacturer to give comparable information about the features of the display. These include luminous intensity, contrast, reflections, color reproduction, uniformity of intensity and color, font analysis, flicker, pixel faults and viewing angle classification. In the case of the MultiSync LCD1850X, this means that the pixel faults are limited to a maximum of two always-dark pixels and two always-light pixels, as well as a maximum of five defective sub-pixels per million—guaranteed.

Warranty and support provide assurance. You can rest easy knowing that NEC-Mitsubishi is available 24 hours a day, 7 days a week for technical support, and a 3-year limited warranty (including backlight) on all models guarantees your satisfaction.

NEC

MultiSync Thin-Frame Series Specifications






Model	*LCD1850x*	*LCD1550V*	*LCD1550M*	*LCD1550X*
Display				
Viewable Image Size (Diagonal)	18.1"	15.0"	15.0"	15.0"
Pixel Pitch	0.28mm	.297mm	297mm	.297mm
Pixels Per Inch	90.7 @ native resolution	85.5 @ native resolution	85.5 @ native resolution	85.5 @ native resolution
Brightness	240 cd/m^2	200 cd/m^2	300 cd/m^2	250 cd/m2
Contrast Ratio	300:1	300:1	450:1	300:1
Viewing Angle	XtraView+= 170° (85 U/85 D/85 L/85 R)	120 degrees Hor., 90 degrees Vert.	150 degrees Hor., 110 degrees Vert.	170 degrees Hor., 170 degrees Vert.
Response Time	14 ms white to black (typical), 15 ms black to white (typical)	30 ms	25 ms	50 ms
Display Colors	More than 16 million	More than 16 million	More than 16 million	More than 16 million
Synchronization Range				
Horizontal	31-82 kHz	31.5-60.0 kHz	31.5-60.0 kHz	30.0-60.0 kHz
Vertical	50-85 Hz	56.2-75.1 Hz	56.2-75.1 Hz	50.0-75.1 Hz
Input signal				
Video	Analog 0.7 Vp-p/75 Ohms	ANALOG 0.7 Vp-p/75 Ohms	ANALOG 0.7 Vp-p/75 Ohms	ANALOG 0.7 Vp-p/75 Ohms, Digital
Sync	Separate Sync: TTL Level (Positive/Negative) Composite Sync: TTL Level (Positive/Negative) Composite Sync on green: (0.3 Vp-p Negative 0.7 Vp-p Positive)	Separate Sync: TTL Level (Positive/Negative)	Separate Sync: TTL Level (Positive/Negative)	Separate Sync: TTL Level (Positive/Negative), Composite Sync: TTL Level (Positive/Negative), Composite Sync on green: (0.3 Vp-p Negative/0.7 Vp-p Positive)
Input	Ambix (VGA 15-pin D-Sub, DVI-I)	VGA 15-pin D-Sub	VGA 15-pin D-Sub	Ambix (VGA 15-pin D-Sub, DVI-I)
Resolutions Supported	720 x 400 @ 70 Hz 640 x 480 @ 60-85 Hz 800 x 600 @ 56-85 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-85 Hz 1280 x 1024 @ 60-76 Hz	720 x 400 @ 70 Hz 640 x 480 @ 60-85 Hz 800 x 600 @ 56-85 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-76 Hz	720 x 400 @ 70 Hz 640 x 480 @ 60-85 Hz 800 x 600 @ 56-85 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-76 Hz	640 x 400 720 x 400 @ 70 Hz 640 x 480 @ 60-85 Hz 800 x 600 @ 56-85 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-76 Hz
Native Resolution (recommended)	1280 x 1024 @ 60 Hz	1024 x 768 @ 75 Hz	1024 x 768 @ 75 Hz	1024 x 768 @ 75 Hz
Additional Features	Ultra-thin frame (bezel), XtraView+ technology wide-angle viewing, No Touch Auto Adjust, OmniColor, (for sRGB color setting), Ambix support for both digital and analog connections, 3rd party touchscreen and protective glass integration, digital smoothing, digital control, color control (4-mode memory + sRGB), Plug and Play (VESA DDC 1/2B), VESA DPMS power management, user (OSM) controls, optional MultiSync sound bar	Ultra-thin frame (bezel), No Touch Auto Adjust, AccuColor color control, digital smoothing, digital control, 3rd party touchscreen and protective glass integration, Plug and Play (VESA DDC 1/2B), VESA DPMS power management, user (OSM) controls	Ultra-thin frame (bezel), No Touch Auto Adjust, AccuColor color control, sRGB, USB, Speakers, digital smoothing, digital control, Plug and Play (VESA DDC 1/2B), VESA DPMS power management, user (OSM) controls	Ultra-thin frame (bezel), XtraView+ Technology wide angle viewing, No Touch Auto Adjust, OmniColor, AccuColor color control, sRGB, optional MultiSync sound bar, Ambix support for both digital and analog connections, digital smoothing, digital control, Plug and Play (VESA DDC 1/2B), VESA DPMS power management, user (OSM) controls, optional MultiSync sound bar
Voltage Rating	Universal 100 (110-240V) 50-60 Hz internal	AC 100-120V/AC 220-240V	AC100-120V/AC 220-240V	AC100-120V/AC 220-240V
Power Consumption				
On	65W	20W	37W	38W
Power Savings Mode	3W	3W	3W	3W
Dimensions (W x H x D)				
Net (with stand)	398 x 445 x 218mm 15.7 x 17.5 x 8.6 in.	345 x 352 x 152mm 13.6 x 13.9 x 6.5 in.	345 x 363 x 162mm 13.6 x 14.3 x 6.4 in.	345 x 378 x 200mm 13.6 x 14.9 x 7.9 in.
Net (without stand)	398 x 349 x 74.4mm 15.7 x 13.7 x 2.9 in.	345 x 284 x 61mm 13.6 x 11.2 x 2.4 in.	345 x 307 x 61mm 13.6 x 12.1 x 2.4 in.	345 x 284 x 61mm 13.6 x 11.2 x 2.4 in.
Net Weight (with stand)	18.7 lbs. (8.5 Kg)	8.4 lbs. (18.5 Kg)	9.9 lbs. (22 Kg)	15.4 lbs. (34 Kg)
VESA Hole Configuration Specification	100mm x 100mm	75mm x 75mm	75mm x 75mm	75mm x 75mm
Accessories	User's Manual, (1) VGA 15-pin D-Sub cable, (1) DVI-D to DVI-I cable, power cord, CD-ROM, LiquidView Software, Portrait Software	User's Manual, VGA 15-pin D-Sub cable, power cord	User's Manual, VGA 15-pin D-Sub cable, USB cable, audio cable, power cord	User's Manual, (1) VGA 15-pin D-Sub cable, (1) DVI-D to DVI-I cable, power cord
Regulatory Approvals	UL/C-UL or CSA; FCC Class B/Canadian DOC; TUV/GS, TUV/ERGONOMIE, ENERGY STAR, MPRII, TCO '95, CE, Ctick	UL/C-UL or CSA; FCC Class B/Canadian DOC; TUV/GS, TUV/ERGONOMIE, ENERGY STAR, MPRII, TCO '95, CE, Ctick	UL/C-UL or CSA; FCC Class B/Canadian DOC; TUV/GS, TUV/ERGONOMIE, ENERGY STAR, MPRII, TCO '95, CE, Ctick	UL/C-UL or CSA; FCC Class B/Canadian DOC; TUV/GS, TUV/ERGONOMIE, ENERGY STAR, MPRII, TCO '95, CE, Ctick
Environmental Considerations				
Operating Temperature:	5-35C/41-95F	5-35C/41-95F	5-35C/41-95F	5-35 C/41-95F
Operating Humidity:	30-80%	30-80%	30-80%	10-80%
Operating Altitude:	3,048m/10,000 ft.	3,000m/9,843 ft.	3,000m/9,843 ft.	3,2048 m/10,000 ft.
Storage Temperature:	-10C-60C/14-140F	-10-60C/14-140F	-10-60C/14-140F	-10-60C/14-140F
Storage Humidity:	10-85%	10-85%	10-85%	10- 90%
Operating Altitude:	13,716m/45,000 ft.	9,500m/31,168 ft.	9,500m/31,168 ft.	13,716m/45,000 ft.
Limited Warranty	3 years parts and labor, 3 years backlight	3 years parts and labor, 3 years backlight	3 years parts and labor, 3 years backlight	3 years parts and labor, 3 years backlight

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