

MultiSync® LCD1510+, LCD1810™ and LCD2010™



Flat screen liquid crystal display
with a super-slim profile

XtraView technology for accurate
viewing from any angle

Portrait/landscape
display flexibility

Designed to maximize your options, NEC Technologies newest line of LCD monitors takes versatility to new heights.

The next generation of MultiSync LCD monitors offers revolutionary flexibility to meet the needs of every user. This exciting new series of LCD displays combines NEC Technologies renowned image quality with innovative features that maximize your usage options.

Portrait/landscape display enables you to change the orientation of the monitor easily. The MultiSync LCD2010™ is the first 20" monitor to offer this capability.

XtraView™ wide-viewing-angle technology increases the viewing angle on all four sides of the screen, allowing flexible, multiple-user display performance in both portrait and landscape modes.

Wall/arm mounting capability is compatible with the VESA industry standard and saves valuable desktop space.

Height-adjustable stand enables you to position your screen at the best possible viewing height in both portrait and landscape orientations.

Factory options such as MicroTouch™ touch screen capability and OptiShield™ protective glass make the MultiSync LCD series monitors ideal for a number of demanding work environments. (Available as a build-to-order option on 15" and 20" models only.)

Accessory attachment system allows you to add third-party options like flat panel speakers, plus additional options as they become available.

Sleek design enhances any environment. All models are available in a mist white cabinet and the MultiSync LCD1810 is now also offered in black. In the Fall of 1999 the LCD 2010 will also be available in the black cabinet color.

Hard-working features meet the requirements of the most demanding industries. Designed to perform in the most demanding work environments, MultiSync LCD series monitors offer the ultimate display solution for professionals in industries including:

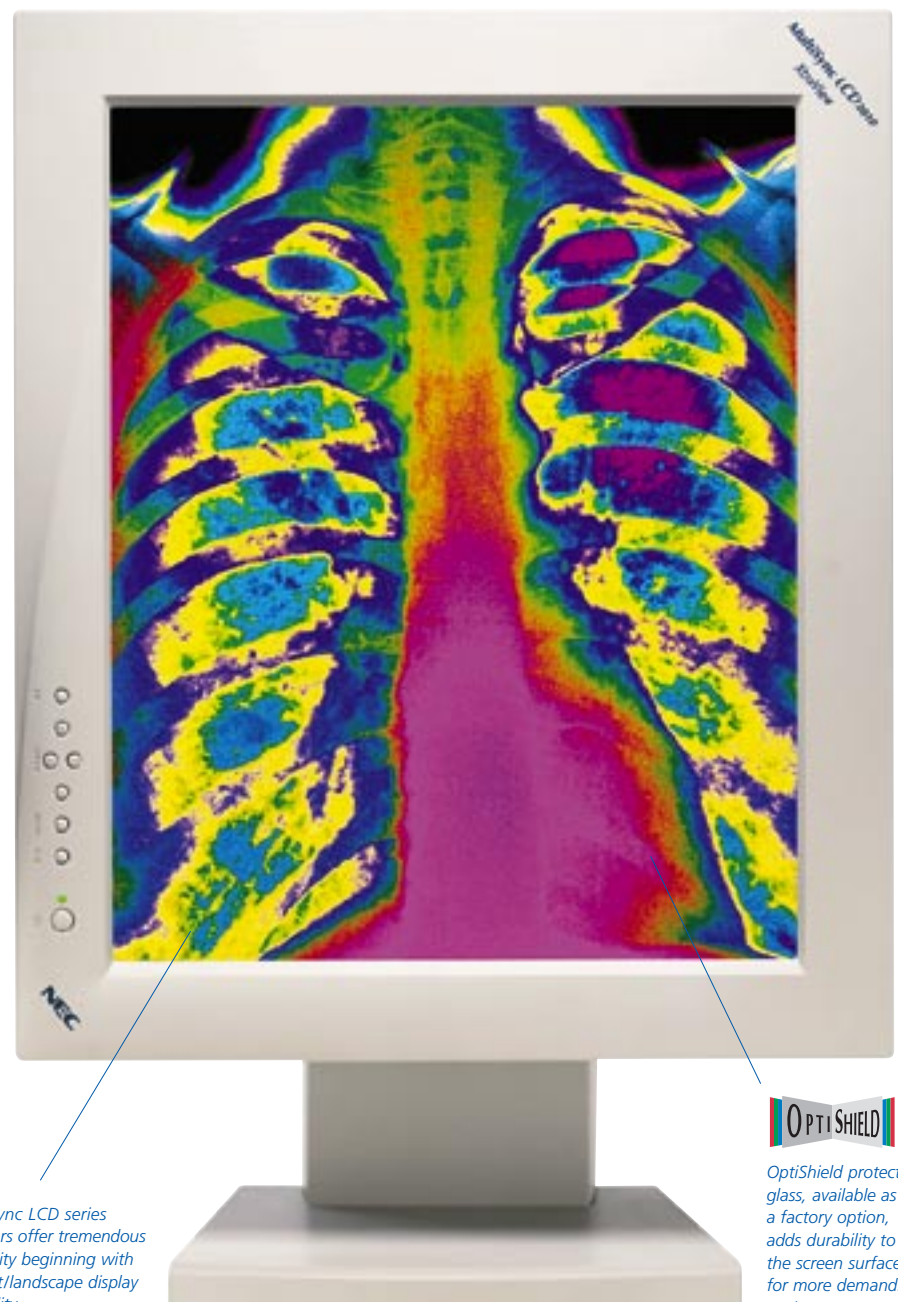
Financial—On the trading floor, MultiSync LCD series monitors save valuable space with their wall/arm mounting capability and reduced foot-

print. The portrait orientation allows more monitors in small spaces. XtraView wide-viewing-angle technology makes it easy for multiple users to view the screen. And, low power consumption saves on operating costs.

Medical—In medical facilities where space is at a premium, the wall/arm mounting capability of the MultiSync LCD series monitors helps clear nurses' desktop space. The portrait orientation capability enables better viewing of x-ray and

MRI images. And, because the monitors emit almost no magnetic fields, they can be placed closer to sensitive devices such as MRI equipment.

Manufacturing—The wall/arm mounting capability and reduced footprint of MultiSync LCD series monitors save space on the assembly line. XtraView wide-viewing-angle technology provides more flexibility of operator position. Data display is more flexible due to the portrait/landscape orientation capability. In addition, the monitors



MultiSync LCD series monitors offer tremendous versatility beginning with portrait/landscape display capability.



OptiShield protective glass, available as a factory option, adds durability to the screen surface for more demanding environments.

also are ideal for clean room situations because their reduced magnetic fields attract less dust.

Transportation—The wall/arm mounting capability and reduced footprint of MultiSync LCD series monitors save valuable space in control rooms. In addition, their reduced power consumption helps save on operating costs.

MultiSync LCD series monitors meet the display requirements of many other industries, such as pre-press, Web site development and law offices. Any industry that can benefit from the flexibility offered by landscape/portrait display capability or that requires group viewing capability will find them a valuable addition to the work environment.

Three models are available to meet the needs of every user.

	MultiSync LCD1510+	MultiSync LCD1810 <i>(now available in mist white or black)</i>	MultiSync LCD2010
Viewable Image Size	15.0"	18.1"	20.1"
Display	Active Matrix LCD XtraView Technology Portrait/Landscape	Active Matrix LCD XtraView Technology Portrait/Landscape	Active Matrix LCD XtraView Technology Portrait/Landscape
Max Resolution	1024 × 768	1280 × 1024	1280 × 1024
Mounting Capability	Accessory mounting capability Arm/wall mount capability	Accessory mounting capability Arm/wall mount capability	Accessory mounting capability Arm/wall mount capability
Factory Options	MicroTouch™ touch screen capability OptiShield™ protective glass	N/A	MicroTouch™ touch screen capability OptiShield™ protective glass



XtraView technology increases the viewing angle to more than 80 degrees up, down, left and right, enabling more accurate viewing in both portrait and landscape modes.

Up-front controls let you quickly and easily access OSM controls for simplified image adjustments.

The height-adjustable stand lets you easily position the screen for maximum comfort and visibility in both portrait and landscape modes.

Complete flexibility puts you in control of your customized LCD display.

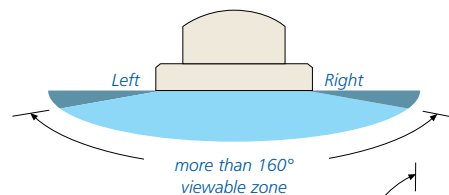


The MultiSync LCD series monitors offer tremendous versatility that puts you in control, beginning with their portrait/landscape display capability. The MultiSync LCD2010 is the first 20" monitor to offer this capability—a feature impossible to achieve with large 21" CRT monitors. Changing orientation is as easy as rotating the lightweight monitor in one fluid motion. In addition, the included software from Portrait Displays Inc., the industry leader, allows for near-automatic orientation of the screen image. Just press a user definable "hot key" on your keyboard, and the image automatically toggles between portrait and landscape modes.

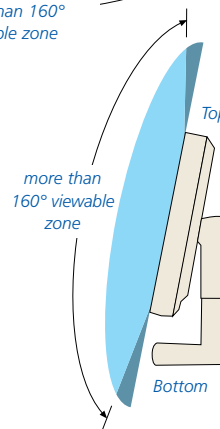
NEC Technologies XtraView technology further enhances flexibility by extending viewing angles to allow for multiple users in both portrait and landscape modes. XtraView allows for wide-viewing angles of more than 80 degrees left and right, as well as more than 80 degrees up and

down. The resulting more than 160-degree "cone" of viewing ensures optimal display performance and allows group viewing in either orientation.

To accommodate virtually any desired viewing position, the MultiSync LCD series monitors can



NEC Technologies XtraView™ technology delivers a wide viewing area of more than 160 degrees for accurate viewing from almost any angle, including more than 80 degrees up, down, left and right.



be removed from the included stand and mounted either on an arm or wall, in either portrait or landscape mode. The monitors feature VESA standard mounting connections for easy attachment to VESA-compliant arms or for connecting monitors to form a display wall.

A thoughtful cable management system keeps cables out of the way and hidden whether the monitor is wall or arm mounted, and a separate power supply means the monitor can be mounted flush against the wall.

In addition, the MultiSync LCD series monitors feature a removable, height-adjustable stand that maximizes viewing flexibility. The stand tilts to the optimum viewing angle in both portrait and landscape modes, and offers full height adjustment in both modes for the most comfortable viewing.



The positioning of the computer inputs enables the monitor to be mounted flush against a wall or cleanly mounted to an arm.



A thoughtful cable management system protects inputs while keeping cables hidden and out of the way.



MultiSync LCD series monitors are compatible with the Kensington lock system for added security.



Modular connection points allow for easy integration of third-party accessories such as flat panel speakers, as well as additional accessories such as microphones and video cameras as they become available.



The removable stand features height and tilt adjustment in both portrait and landscape modes. Cables snake cleanly through the stand and are kept out of the way.

All the hallmarks of NEC Technologies quality, from superior display performance to low power consumption, in a compact footprint.

Superior display quality provides bright, sharp images with true color reproduction.

The active matrix LCD modules used in these MultiSync LCD monitors enable the display of almost unlimited colors in a continuous spectrum, providing a truer representation of color. In addition, the high-contrast LCDs enhance color vibrancy and improve focus with no geometric distortion.

Light weight and slim footprint enhance versatility in tight spaces. Weighing as little as 15.4 pounds and measuring less than 3" in depth when removed from the stand, MultiSync LCD series monitors are lightweight and slender enough to fit almost anywhere. Measuring less than 60% the depth of comparable CRT monitors and weighing 70% less, they are versatile enough to turn tight spaces into productive places.

Excellent compatibility meets your needs today and tomorrow. MultiSync LCD series monitors offer support for multiple resolutions to extend their versatility into the future. The MultiSync LCD1810 and LCD2010 support resolutions from 640 x 480 to 1280 x 1024. The MultiSync LCD1510+ supports resolutions from 640 x 480 to 1024 x 768. And, because they have analog inputs, the MultiSync LCD series monitors accept RGB input directly. There's no need to purchase or hassle with special analog-to-digital graphics or interface cards or convert back to a digital signal.

MultiSync LCD series monitors are fully compatible with PC and Macintosh® computers as well as Sun® and Silicon Graphics® workstations and other workstations and x-terminals.

In addition, the MultiSync LCD1810 offers dual input capability. Ideal for environments that require two computers to be connected to one display, users can simply toggle between the two with a touch of a button on the front panel.

OSM™ on-screen controls enable image adjustment at the touch of a button. MultiSync LCD series monitors incorporate NEC Technologies own OSM on-screen controls for quick, easy image adjustments including brightness, horizontal and vertical position and contrast in either portrait or landscape mode. The simple push of a button changes the orientation of the OSM menu to



Optional MicroTouch touch screen capability enables you to reap the benefits of touch screen applications with flat-panel technology. (Available as a build to order option on 15" and 20" models only.)

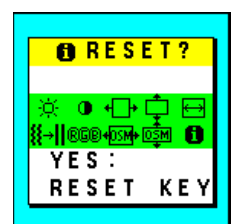
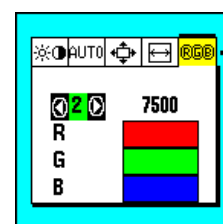
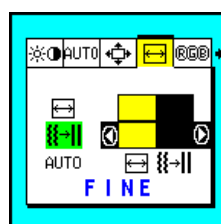
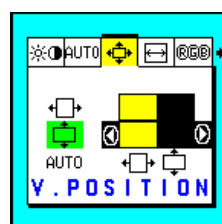
match the screen orientation. In addition, an auto-adjust feature provides one-button centering, making horizontal and vertical adjustments at the same time to perfectly center your screen image. OSM also provides access to NEC Technologies exclusive AccuColor® control system, which lets you closely match your on-screen colors to your printed output, color standard or personal preferences.

Low power consumption and reduced emissions save costs. MultiSync LCD series monitors consume 50% less power on average than comparable CRT monitors and emit less heat. This translates into lower electric and cooling needs, allowing users to conserve energy and save on energy costs. MultiSync LCD series

monitors exceed ENERGY STAR® and NUTEK requirements for reduced power consumption.* And, they have almost no emissions, making them suitable for a number of sensitive environments.

The quality and reliability of NEC Technologies provides peace of mind. MultiSync LCD series monitors follow the tradition of quality and reliability set by previous generations of NEC Technologies award-winning LCD and CRT monitors. For additional peace of mind, each MultiSync LCD series monitor is backed by a three-year limited warranty (including backlight) as well as the outstanding service and support of NEC Technologies.

*Does not apply to models with MicroTouch option.



NEC Technologies OSM controls let you adjust all elements of your screen image using easy to understand controls displayed on-screen.



Measuring as little as 9" in depth (3" when removed from the stand) the MultiSync LCD monitors consume 60% less space and weigh 70% less than comparable CRT monitors.



Offering outstanding versatility, MultiSync LCD series monitors deliver superior display performance and flexible operation whether mounted to a stand, arm or wall either as a single monitor or in a multiple monitor configuration.



MultiSync LCD1510+, LCD1810, and LCD2010 Specifications

Model #LCD1510+, LA-1831JMW (white), LA-1831JMW-BK (black), LA-2032JMW (white) (black cabinet color available Fall 1999)

Display

LCD1510+:	15.0" (15.0" viewable image size), active matrix, thin film transistor (TFT), liquid crystal display (LCD); 0.30mm dot pitch; XtraView technology; 200 cd/m ² white luminance, typical; 150:1 contrast ratio, typical
LCD1810:	18.1" (18.1" viewable image size), active matrix, thin film transistor (TFT), liquid crystal display (LCD); 0.28mm dot pitch; XtraView technology; 200 cd/m ² white luminance, typical; 150:1 contrast ratio, typical
LCD2010:	20.1" (20.1" viewable image size), active matrix, thin film transistor (TFT), liquid crystal display (LCD); 0.31mm dot pitch; XtraView technology; 150 cd/m ² white luminance, typical; 150:1 contrast ratio, typical

Compatibility (Landscape)

LCD1510+:	720 x 400* VGA text 640 x 480*: 60Hz to 75Hz 800 x 600*: 56Hz to 75Hz 832 x 624*: 75Hz 1024 x 768: 60Hz to 75Hz
LCD1810:	720 x 400* VGA text 640 x 480*: 60Hz to 76Hz text 800 x 600*: 56Hz to 76Hz 832 x 624*: 75Hz 1024 x 768*: 60Hz to 75Hz 1152 x 900*: 66Hz 1280 x 960*: 60Hz to 76Hz 1280 x 1024: 60Hz to 76Hz
LCD2010:	720 x 400* VGA text 640 x 480*: 60Hz to 76Hz 800 x 600*: 56Hz to 76Hz 832 x 624*: 75Hz 1024 x 768*: 60Hz to 75Hz 1152 x 900*: 66Hz 1280 x 960*: 60Hz to 76Hz 1280 x 1024: 60Hz to 76Hz

Display Resolution (Landscape)

LCD1510+:	1024 x 768
LCD1810, LCD2010:	1280 x 1024

Viewing Angles

LCD1810:	Typical: 170° Vertical (85° up/85° down), 170° Horizontal (85° left/85° right),
LCD1510+, LCD2010:	Typical: 160° Vertical (80° up/80° down), 160° Horizontal (80° left/80° right)

Input Signal

All Models:	Video: ANALOG RGB (Video 0.7 Vp-p), Input Impedance: 75 ohms, Sync: Separate sync. TTL level, Horizontal sync: positive/negative, Vertical sync: positive/negative Composite sync: TTL level, positive/negative, Composite sync. on green video: 0.3 Vp-p negative
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Display Colors

LCD1510+	16.7 million
LCD1810, LCD2010:	Unlimited colors (dependent on video card)

User Controls

All Models:	Power, brightness and contrast, horizontal position, vertical position, auto adjust, image adjust, AccuColor, OSM lock out, OSM horizontal position, OSM vertical position, all reset, horizontal size, fine
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Signal Cable

LCD1510+:	15-pin mini D-sub male to 15-pin mini D-sub male
LCD1810:	Dual inputs: 15-pin mini D-sub male to 5 branched BNC male (capable), 15-pin mini D-sub male to 15-pin mini D-sub male (standard cable)
LCD2010:	15-pin mini D-sub male to 5 branched BNC male

Power Supply

All Models:	AC 100 to 120 V/220 to 240 V 50/60 Hz worldwide input
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Power Consumption

LCD1510+:	Typical: 34 Watts ON mode, under 5 watts power saving mode
LCD1810:	Typical: 67 Watts ON mode, under 8 watts power saving mode
LCD2010:	Typical: 77 Watts ON mode, under 8 watts power saving mode

Power Management

All Models:	IPM™ (Intelligent Power Manager) system, EPA ENERGY STAR, meets NUTEK based on 2 power saving modes
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Dimensions (with stand) (WxHxD)

LCD1510+:	Landscape: 15.0" x 15.4" x 8.6", 381mm x 392mm x 217mm Portrait: 12.3" x 16.8" x 8.6", 312mm x 427mm x 217mm Height Adjustment: 2.2"/55mm
LCD1810:	Landscape: 17.9" x 18.1" x 10.3", 454mm x 461mm x 262mm Portrait: 15.0" x 19.6" x 10.3", 382mm x 497mm x 262mm Height Adjustment: 2.8"/70mm
LCD2010:	Landscape: 19.6" x 19.7" x 10.3", 498mm x 501mm x 262mm Portrait: 16.5" x 21.3" x 10.3", 418mm x 541mm x 262mm Height Adjustment: 3.1"/80mm

Dimensions (without stand) (WxHxD)

LCD1510+:	15.0" x 12.3" x 2.6" 381mm x 312mm x 67mm
LCD1810:	17.9" x 15.0" x 3.5" 454mm x 382mm x 90mm
LCD2010:	19.6" x 16.5" x 4.2" 498mm x 418mm x 106mm

Weight (with stand)

LCD1510+:	Net: 15.4 lbs./7.0kg
LCD1810:	Net: 22.0 lbs./10.0kg
LCD2010:	Net: 27.6 lbs./12.5kg

Weight (without stand)

LCD1510+:	8.6 lbs./3.9kg
LCD1810:	12.2 lbs./5.5kg
LCD2010:	16.9 lbs./7.6kg

Environmental

LCD1510+, LCD1810:	Operating temperature: 5°C to 35°C, 41°F to 95°F, Humidity 80% maximum Storage temperature: -10°C to 60°C, 14°F to 140°F, Humidity 85% maximum
LCD2010:	Operating temperature: 5°C to 30°C, 41°F to 86°F, Humidity 80% maximum Storage temperature: -10°C to 60°C, 14°F to 140°F, Humidity 85% maximum

Limited Warranty

All Models:	3 years, parts and labor (including backlight)
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Regulatory Approvals

All Models:	UL 1950, C-UL, FCC Rules Part 15, Class B, Canadian DOC, CE, TÜV-GS, TÜV-Ergonomie, TCO'99 for the following products: LCD1510+, LCD1810(white), TCO95 for the following products: LCD1810(black), LCD2010.
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For the location of the MultiSync LCD monitor dealer nearest you or for more information, call **1-800-NEC-INFO**.

To speak to a MultiSync LCD monitor customer service representative, call **1-800-836-0655**.

Visit our World Wide Web home page at <http://www.nectech.com>.

For more information via fax, call **NEC FastFacts** at **1-630-467-4363** and request **Catalog #1**.

NEC Technologies, Inc.
1250 N. Arlington Heights Road, Suite 500
Itasca, Illinois 60143-1248



NEC Technologies

* Due to the interpolation necessary for operation of LCD panel resolutions at full screen, it is recommended that LCD monitors utilize the full resolution capability of the panel and are operated at their optimal or maximum resolution when text or fine lines are being viewed.

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