PROFESSIONAL

MULTISYNC® LCD1980FXi™

19" ultra-thin-frame LCD monitor ideal for financial environments

NEC has developed the ideal display to help you master the market. Featuring an ultra-thin-frame design, superior screen performance and advanced technologies, the 19" NEC MultiSync LCD1980FXi equips you with all of the necessary display tools to access information quickly and comfortably.

Enjoy exclusive benefits. The NEC MultiSync LCD1980FXi's bezel is even thinner than its predecessors, measuring 12mm on its sides and 13.6mm on the top and bottom. This design not only frees up more valuable desktop space, it allows for even more seamless multi-monitor configurations. Another unique feature of the LCD1980FXi is AmbiBright™ technology, which automatically adjusts the backlight depending on the brightness of ambient lighting conditions, reducing eyestrain and providing more comfortable viewing. For example, if the sensor detects the ambient lighting becoming darker, it reduces the backlight appropriately. Further, if ambient lighting falls below a predetermined value, the monitor automatically enters a power-saving mode, which can significantly reduce energy expenses when considering the number of monitors used on trading floors.

Gain greater control. Our exclusive NaViSet™ software (available by download) offers an intuitive graphical user interface that allows the user to adjust On Screen Manager (OSM®) display settings via mouse and keyboard instead of using the monitor's up-front buttons. This software provides animated graphics and test patterns to help guide the user through adjustments.

For an unprecedented level of control, NaViSet Administrator software for IT professionals (available upon request) contains Windows Management Instrumentation™ (WMI) for remote control and diagnostics maintenance for all installed units. This software provides IT personnel remote access to the monitor and its settings without disrupting the user.

Features and Benefits

AmbiBright automatically adjusts the backlight depending on ambient lighting brightness

XtraView+ technology allows for the widest viewing angles available (up to 178°) without off-angle color shift

Rapid Response™ technology delivers virtually uninterrupted, undistorted viewing of high-speed, full-motion video

NaViSet software offers an expanded and intuitive graphical interface, allowing you to more easily adjust display settings via mouse and keyboard. The Administrator version utilizes the monitor's advanced control and diagnostics capabilities to provide IT professionals with remote access to monitor settings over their existing network

GammaComp™ internal circuitry automatically converts 8-bit data from the PC to 10-bit and back to 8-bit, producing smooth, accurate color tones

TileMatrix allows you to build video walls of various configurations (up to 5 x 5) through the Advanced OSM

TileComp™ compensates for tiled bezel width to optimally display still images

Automatic black level adjustment regulates grayscale images for optimal picture quality

Power-off timer automatically turns your monitor's power off after a user-determined amount of time

AutoBright™ function aligns the monitor's brightness level with the application in use for optimal viewing

Auto DVI cable detection eliminates manual setup steps and ensures optimal performance between your system and monitor

Cable management helps prevent unattractive, space-consuming wire clutters

Advanced No Touch Auto Adjust™ provides optimal image settings upon initial power-on and closed signal changes (includes a user-selectable mode in the Advanced OSM)

Pivot capability and height-adjustable stand add flexibility to your viewing preferences

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All of these control capabilities are made possible using the advanced remote diagnostics and remote control capabilities of the Display Data Channel/Command Interface (DDC/CI). This allows control commands to be sent directly to the monitor by the local system or remotely over an existing network (LAN) by a system administrator. In order to take full advantage of these benefits, users must use a DDC/CI-compatible graphics card and be running Windows 2000/XP.

Also controlled through the Advanced OSM is TileMatrix, which allows you to build video walls of various configurations. With the use of a simple video amplifier and a standard video card, this feature saves you time and money compared to other connection solutions. With the ability to utilize up to 25 monitors (5 x 5 configuration) that display a shared image, you can build an impressive video wall for various applications, including advertising and tradeshows. TileComp works in tandem with TileMatrix to compensate for the width of tiled bezels and optimally display still images.

Another user-controlled feature offered by the Advanced OSM is AutoBright, which adjusts the brightness level based on the image content on the screen. This function delivers optimal readability and reduced user eyestrain, as well as conserves energy, contributing to a lower total cost of ownership.

Wide compatibility for today and tomorrow. Ambix+™ technology provides the widest range of computer video compatibilities between analog and digital systems by allowing the same monitor to work seamlessly in either environment. The DVI-I connector provides digital or analog input, the DVI-D connector provides digital-only input, and a third input is provided with a traditional 15-pin VGA connector, which allows for legacy analog-only connection. This tripleinterface architecture provides a number of single and dual-input configurations.

Hassle-free display setup. With Advanced No Touch Auto Adjust, the MultiSync LCD1980FXi not only provides for an optimal image upon initial power-on but can also detect closed signal changes even if it runs under the same resolution and refresh rate, as is the case with external signal switch boxes. This results in a more stable image after switching. This model also features auto DVI cable detection, which, upon power-up of your computer system, allows it to identify which signal cable (analog or digital) is attached to the monitor's DVI-I connector. This technology eliminates many manual setup steps and assures that your system and monitor configuration are achieving optimal performance.

Intelligent power management ensures a smart investment. Using approximately 50% less power and emitting less heat than comparable CRT monitors, the MultiSync LCD1980FXi allows you to conserve energy and lower your total cost of ownership. Many technologies contribute to these savings, including the automatic power-off timer, which can be set from 1-24 hours via the on-screen display. If users forget to turn off their monitors, this function will turn them off automatically after a user-determined period of time, thereby reducing electrical power costs. The high-efficiency backlight, which provides the longest lifetimes of any NEC LCD monitor, reduces not only the power consumption but also the heat generation at the front of the screen.

Model	NEC MultiSync LCD1980FXi
Display	
Viewable Image Size	19"/48.2 cm
Pixel Pitch	0.294mm
Pixels Per Inch	86 @ native resolution
Brightness (typical)	270 cd/m^2
Contrast Ratio (typical)	600:1
Viewing Angle (typical)	178° Vert., 178° Horiz. (89U/89D/89L/89R)
Response Time (typical)	Rapid Response (18ms)
Display Colors	16.77 million
Synchronization Range	
Horizontal	31.5 - 81.1 kHz
Vertical	50 - 85 Hz
Input Signal	
Video	Analog 0.7 Vp-p/75 Ohms
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)
Input	DVI-I, DVI-D and VGA 15 pin D-sub
Resolutions Supported	Analog/Digital: 720 x 400 @ 70 - 85 Hz 640 x 480 @ 60 - 85 Hz 800 x 600 @ 56 - 85 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60 - 85 Hz 1152 x 864 @ 70 - 85 Hz 1152 x 870 @ 75 Hz 1280 x 960 @ 60 Hz 1280 x 1024 @ 60 - 75 Hz
Native Resolution	1280 x 1024 @ 60 Hz
Additional Features	Ultra-thin-frame (bezel), GammaComp, TileMatrix, TileComp, XtraView+ wide-angle viewing technology, Ambix+ technology, Advanced No Touch Auto Adjust, AutoBright, CableComp, power-off timer, black level adjustment, AmbiBright, digital smoothing, digital controls, OmniColor 6-axis color control sRGB, Plug and Play (VESA DDC2B & 2Bi), VESA DPMS power management, ISO 13406-2 Class II, vacation switch, optional MultiSync SoundBar 80, height-adjustable stand, Rapid Motion
Touch/Protective Glass-Capable	Designed for integration
Voltage Rating	Universal 100 (110-240V) 50-60 Hz internal
Power Consumption (typical)	
On	48W
Power Savings Mode	<2W
Dimensions (W x H x D)	
Net (with stand)	402.3 x 364.8 x 200mm / 15.8 x 14.4 x 7.9 in.
Net (without stand)	402.3 x 330.3 x 77.5mm / 15.8 x 13 x 3.1 in.
Weight	
Net (with stand)	21.4 lbs/9.7 kg
Net (without stand)	13.9 lbs/6.3 kg
VESA Hole Configuration Specs.	100mm x 100mm
Environmental Considerations	
Operating Temp.	5-35°C/41-95°F
Operating Humidity	30-80%
Operating Altitude:	3048 m/10,000 ft
Storage Temp.	-10-60°C/14-140°F
Storage Humidity	10-85%
Storage Altitude:	12,192 m/40,000 ft
Limited Warranty	3 years parts and labor, including backlight
Technical Support	24 hours/7 days

NOTE: Technical specifications are subject to change without notice.

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