

MultiSync® LCD1990FX™ / LCD1990FXp™

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



NEC Display Solutions has developed the ideal displays to help you master the market. Featuring an ultra-thin-frame design, superior screen performance and advanced technologies, the 19" NEC MultiSync LCD1990FX and MultiSync LCD1990FXp equip you with all of the necessary display tools to access information quickly and comfortably.

A design that combines the best in form and function. Two of the thinnest display frames in the industry highlight these monitors' dynamic designs. In fact, the MultiSync LCD1990FXp features the world's thinnest bezel with sides measuring a mere 6.9mm. Aside from providing an increased screen area to let you focus more on your ideas, the virtually imperceptible bezel frees up more horizontal and vertical desktop space for multi-monitor applications. These include both standard side-by-side and tiled configurations, which are also assisted by the cabinet's rear clip slots. Using the clips (available separately), these allow for easier alignment of the displays for a more seamless overall appearance.

Newly designed control buttons on the bottom corner of the bezel provide you with a more intuitive means to reach your preferred image settings. By having a key guide for each button appear on-screen alongside it when activated, an even thinner and more non-distracting bezel is achieved. Plus, when switching from landscape to portrait orientation or vice versa, an internal gravitational sensor automatically changes the on-screen guides accordingly.

As easy adaptability for displays is a necessity in financial environments, the displays' quick release stand and recessed handle are essential. With the simple pull of a lever on the base, the display quickly disengages from the stand, allowing you to move the display from a desktop to a wall or arm mount. Tools and easy-to-lose screws also can be avoided with the use of this quick and simple function. The handle on the back of the display further eases the display's portability.

Features and Benefits

Ultra-thin-frame design lets you to view more of your ideas and less of the monitor bezel, while freeing up more horizontal and vertical desktop space for multiple-monitor applications

Redesigned bezel controls increase simplicity and ease of use, displaying on-screen functions alongside the appropriate buttons

Height-adjustable stand boasts a range of up to 150mm to maximize your viewing comfort

Recessed portability handle on the back of the display provides easier transport

Quick-release stand allows you to detach the display from its base with the simple pull of a lever

Enhanced cable management helps prevent unattractive cable and cord clutters no matter the height adjustment/orientation of your display

Rear alignment clip slots allow for easier, more seamless multi-display setups

Pivot capability adds flexibility to your viewing preferences

Eco-Mode helps extend the life of the display by allowing the user to dim the backlight, thereby reducing heat generation and conserving energy

Ambix® dual-input technology allows for digital/analog compatibility with upgraded video cards and software as well as connection to two systems

AmbiBright™ automatically adjusts the backlight and power management depending on ambient lighting brightness

XtraView+™ technology provides for the widest viewing angles available (up to 178°) with minimal off-angle color shift

No Touch Auto Adjust™ provides optimal image settings upon initial power-on and closed signal changes

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

NaViSet™ software offers an expanded and intuitive graphical interface, allowing you to more easily adjust OSM display settings via mouse and keyboard

Advanced image control. A user-controlled feature offered by the LCD1990FX and LCD1990FXp is AmbiBright, which automatically adjusts the backlight depending on the brightness of ambient lighting conditions. For example, if the sensor detects the ambient lighting becoming darker, it reduces the backlight appropriately, which helps provide optimal readability and reduce eyestrain. Further, if desired, you can set the display to automatically enter a power-saving mode when the ambient lighting falls below a predetermined value (i.e. when office lights are shut off at the end of the day), which can significantly reduce energy expenses. When you consider the number of monitors used on trading floors and other display-heavy environments, this brightness function can contribute significantly to a lower total cost of ownership.

The display's Eco-Mode further helps conserve energy by allowing you to define a setting for the backlight at a 50 or 75% brightness level. This feature's benefits are best utilized in larger corporate environments where many displays are employed.

Enhanced pro-level screen performance. With XtraView+ wide-angle viewing technology you can enjoy flexible horizontal and vertical viewing angles up to 178°(89° up, down, left and right) with minimal color shift and less glare, reflection and distortion. Less off-angle color shift results in less image degradation and, in environments where data may be viewed by multiple users, this enhanced feature proves to be a winning solution. NEC's Rapid Response technology provides for uninterrupted display of full-motion video with response times as quick as 18ms. This lightning-fast motion makes these models better than ever for streaming video applications such as stock tickers and live web reports.

Wide compatibility for today and tomorrow. With Ambix dual-input technology—which utilizes both DVI-I and traditional 15-pin VGA connectors—you can bridge the gap between analog and digital systems by allowing the same monitor to work seamlessly in either environment. Ambix provides compatibility with today's computer systems and is on the forefront of tomorrow's digital output. Digital technology allows for connection with any signal in a preset range, regardless of the frequency output of the video card. A standard in the industry for many years, the easy-to-recognize VGA connector ensures hassle-free equipment swaps during technology upgrades.

Take your control a step further. Our exclusive NaViSet software (available by download) offers an intuitive graphical user interface that allows you to adjust On Screen Manager (OSM®) display settings via mouse and keyboard instead of the monitor's up-front buttons. This software provides animated graphics and test patterns to help guide the user through adjustments for these display models. 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 LCD1990FX and LCD1990FXp units. This software provides IT personnel remote access to the monitor and its settings without disrupting the user. All of these control capabilities are made possible using the advanced remote diagnostics and 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 employ a DDC/CI-compatible graphics card and be running Windows 2000/XP.

Model	NEC MultiSync LCD1990FX	NEC MultiSync LCD1990FXp	
Display	Viewable Image Size Pixel Pitch Pixels Per Inch Brightness (typical) Contrast Ratio (typical) Viewing Angle (typical)	19" 0.294mm 86 @ native resolution 270 cd/m ² 800:1 178° Vert., 178° Horiz. (89U/89D/89L/89R) @ CR:10	19" 0.294mm 86 @ native resolution 250 cd/m ² 1500:1 178° Vert., 178° Horiz. (89U/89D/89L/89R) @ CR:10
	Response Time (typical) Display Colors	Rapid Response (18ms) 16.7 million out of 68.5 billion	Rapid Response (20ms) 16.7 million out of 68.5 billion
Synchronization Range	Horizontal Vertical	31.5-82 kHz (Analog/Digital) 50-75 Hz	31.5-81.1 kHz (Analog/Digital) 50-75 Hz
Input Signal	Video	ANALOG RGB 0.7 Vp-p/ 75 Ohms	ANALOG RGB 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)	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 and VGA 15 pin D-sub	DVI-I 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	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	1280 x 1024 @ 60 Hz	
Additional Features	Ultra-thin-frame (bezel), No Touch Auto Adjust, NaViSet software, tilt/swivel, pivot, height-adjustable stand, vacation switch, cable management, 8-bit gamma, AmbiBright, Eco-Mode, quick-release stand, digital smoothing, digital controls, sRGB, Plug and Play (VESA DDC2B & 2Bi), VESA DPMS power management, ISO 13406-2 Class II	Ultra-thin-frame (bezel), No Touch Auto Adjust, NaViSet software, tilt/swivel, pivot, height-adjustable stand, vacation switch, cable management, 8-bit gamma, AmbiBright, Eco-Mode, quick-release stand, digital smoothing, digital controls, sRGB, Plug and Play (VESA DDC2B & 2Bi), VESA DPMS power management, ISO 13406-2 Class II	
Touch-Capable	Designed for integration	No	
Voltage Rating	AC 100-120V/AC 220-240V	AC 100-120V/AC 220-240V	
Power Consumption (typical)	On Power Savings Mode	40W <2W	40W <2W
Dimensions (W x H x D)	Net (with stand)	15.8 x 16.2-22.1 x 9.7 in./ 402.3 x 410.7-560.7 x 247.3mm	15.4 x 16-22 x 9.7 in./ 392.2 x 408.9-558.9 x 247.3mm
	Net (without stand)	15.8 x 13 x 3 in./ 402.3 x 330.3 x 75mm	15.4 x 12.8 x 2.59 in./ 392.2 x 326.7 x 66mm
Weight	Net (with stand) Net (without stand)	19.8 lbs./9 kg 13.9 lbs./6.3 kg	18.7 lbs./8.5 kg 13.9 lbs./6.3 kg
VESA Hole Configuration Specs.	100mm x 100mm	100mm x 100mm	
Environmental Considerations	Operating Temp. Operating Humidity Operating Altitude:	5-35°C/41-95°F 30-80% 3658 m/12,001 ft.	5-35°C/41-95°F 30-80% 3658 m/12,001 ft.
	Storage Temp. Storage Humidity Storage Altitude:	-10-60°C/14-140°F 10-85% 12,192 m/40,000 ft.	-10-60°C/14-140°F 10-85% 12,192 m/40,000 ft.
Limited Warranty	3 years parts and labor, including backlight	3 years parts and labor, including backlight	
Technical Support	24 hours/7 days	24 hours/7 days	



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