

# MultiSync® E Series

**The MultiSync® E Series monitors deliver premium screen performance to meet the demands of today's sophisticated users.**

Designed for corporate, small-office and performance-driven home users, the MultiSync Enterprise Series monitors set the industry standard for screen performance, allowing users to take full advantage of today's sophisticated text and graphics applications. They are available in three screen sizes to meet your particular needs:

- *The MultiSync E500™ monitor has a 15" CRT (13.8" viewable image size).*
- *The MultiSync E700™ monitor has a 17" CRT (15.6" viewable image size).*
- *The MultiSync E1100™ monitor has a 21" CRT (19.8" viewable image size).*

**Crisp, bright, color-saturated images.**

The MultiSync E Series monitors feature superior CRT technology for the highest-quality images.

**CROMACLEAR™ CRT.** The MultiSync E500 and E700 monitors feature NEC Technologies' exclusive CROMACLEAR CRT, a breakthrough in display technology that results in superior image quality, including:

- *Sharper, more precise images.* The CROMACLEAR CRT has a unique design featuring elliptical-shaped illuminated

phosphors and slot mask for superior vertical and horizontal image definition. This results in crisp, clean edges that enable users to view text and graphics more clearly.

- *Superior contrast.* The CROMACLEAR CRT features a dark-tint for better overall contrast, which, combined with its sharp focus, enables accurate and comfortable viewing of small detail and small font sizes.
- *Enhanced depth and dimension.* The unique design of the CROMACLEAR CRT also results in images with enhanced depth and dimension.
- *Intense color saturation.* NEC Technologies uses the highest-quality red, green and blue phosphor material resulting in vibrant, true-to-life colors.

**Dot Trio CRT.** The MultiSync E1100 features a dot trio CRT for crisp images and extraordinary brightness. The dot trio CRT also delivers clean edges on lines such as those found on text and charts.

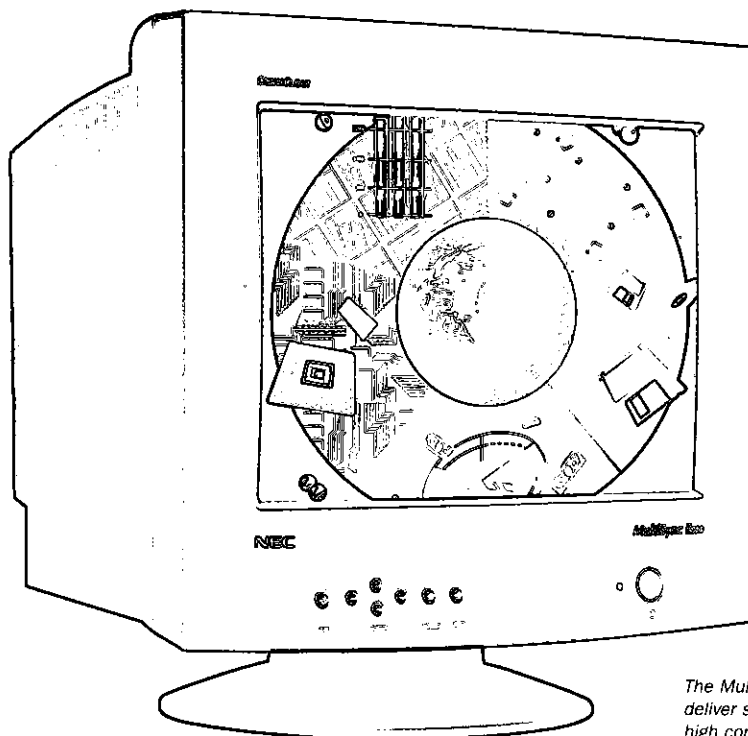
All the MultiSync E Series monitors feature NEC Technologies' OptiClear® screen surface to enhance focus and contrast while virtually eliminating glare. FullScan™ capability enables edge-to-edge images without an unusable black border. The fine mask and dot pitches deliver crisp, sharp, easy-to-read text and graphics. And, with super-high refresh rates up to 120 Hz, the MultiSync E Series monitors

deliver the stable, flicker-free images that can ease eyestrain and make viewing more comfortable.

**OSM™ (On-Screen Manager) controls put image adjustments at your command.**

NEC Technologies' intuitive OSM controls enable users to make image adjustments quickly and easily. The upfront buttons activate the OSM's easy-to-navigate menus, which give you access to adjustments for:

- *Brightness and contrast*
- *Image size and position*
- *Screen geometry*
- *The AccuColor® control system* which lets you adjust on-screen colors to closely match your personal preferences, printer or color standard. This feature saves time and frustration when creating color output because what you see on screen closely matches what you print. In addition, you can access industry-standard color temperature settings.

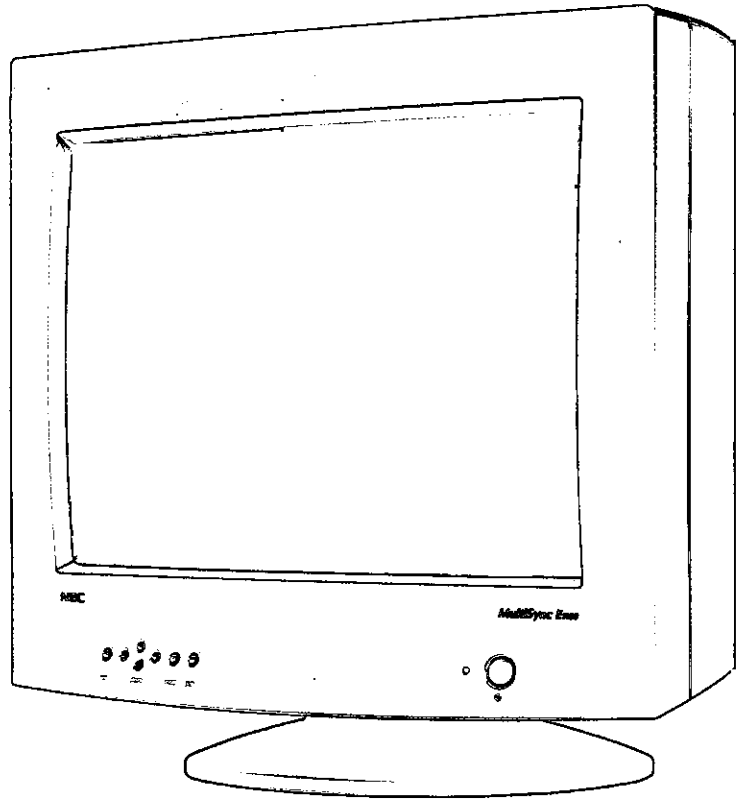


*The MultiSync E Series monitors deliver superior image clarity, with high contrast and precise focus.*

**Microsoft® Plug and Play compatibility streamlines setup and improves performance.** To minimize setup and installation time with Windows® 95, the MultiSync E Series monitors feature Plug and Play compatibility. Plug and Play allows the monitor to send its capabilities—such as screen size and resolutions supported—directly to your computer. Display performance is automatically optimized by providing the best match between the capabilities of your monitor and your computer.

**Energy Star and NUTEK compliant to save energy costs.** The MultiSync E Series monitors include NEC Technologies' IPM™ (Intelligent Power Manager) system, which allows the monitor to shift to a lower power consumption level when not in use. This can save you up to two-thirds of your monitor energy costs during the time that your monitor is idling.

(To realize the benefits of the IPM system, your monitor must be used with a computer, display card or software utility that is VESA DPMS compliant.)



*The MultiSync E Series monitors offer outstanding flexibility and reliability with PC and Macintosh compatibility as well as a three-year limited warranty.*

**Outstanding compatibility for the flexibility to grow with you.** The MultiSync E Series monitors support super-high resolutions for outstanding flexibility and the ability to "grow with you" as your needs change. In addition, they are compatible with PC and Macintosh® computers for maximum flexibility.

**ErgoDesign® enhancements increase comfort, productivity and ease of use.** The MultiSync E Series monitors, like all NEC Technologies monitors, are designed according to our ErgoDesign philosophy. ErgoDesign enhancements adapt technology to the way you work resulting in increased comfort and ease of use. The ErgoDesign elements incorporated into the MultiSync E Series monitors include:

- *OSM controls* for quick and easy adjustments.
- *Removable tilt/swivel base* that easily adjusts to each user's preferred angle of vision.
- *Reduced Magnetic Field™ technology* that meets strict Swedish MPRII guidelines for lower ELF and VLF emissions.

**The quality and reliability you expect from NEC Technologies.** The MultiSync E Series monitors are covered by an industry-leading three-year limited warranty including parts, labor and the CRT. This warranty, truly one of the best in the industry, rivals that of any monitor manufacturer. In addition, every MultiSync monitor is backed by the responsive service and support of NEC Technologies.

*High resolutions and refresh rates, as well as OptiClear screen surface for reduced glare, result in the MultiSync E Series monitors' premium display quality.*

Specifications	MultiSync® E500™ Model #JC-1575VMA	MultiSync® E700™ Model # JC-1746UMA	MultiSync® E1100™ Model # JC-2144UMA
<b>Picture Tube:</b>	15" CROMACLEAR CRT (13.8" viewable image size), 1080 mm radius, 90 degree deflection, 0.25 mm mask pitch, medium-short persistence mask phosphor, anti-static coating, dark-tint screen, Invar shadow mask, OptiClear screen surface	17" CROMACLEAR CRT (15.6" viewable image size), 1210 mm radius, 90 degree deflection, 0.25 mm mask pitch, medium-short persistence mask phosphor, anti-static coating, dark-tint screen, Invar shadow mask, OptiClear screen surface	21" (19.8" viewable image size) flat square technology high contrast CRT, 1730 mm radius, 90 degree deflection, 0.28 mm dot pitch, dot type matrix, medium-short persistence phosphor, anti-static coating, Invar shadow mask with Litz wire yoke, OptiClear screen surface
<b>PC and Macintosh Compatibility:</b> (Some systems may not support all modes listed)	640×480: 60 to 120 Hz vertical refresh 800×600: 55 to 108 Hz vertical refresh 832×624: 55 to 103 Hz vertical refresh 1024×768: 55 to 85 Hz vertical refresh 1152×870: 55 to 75 Hz vertical refresh 1280×1024: 55 to 65 Hz vertical refresh	640×480: 60 to 120 Hz vertical refresh 800×600: 55 to 120 Hz vertical refresh 832×624: 55 to 120 Hz vertical refresh 1024×768: 55 to 100 Hz vertical refresh 1152×870: 55 to 89 Hz vertical refresh 1280×1024: 55 to 76 Hz vertical refresh 1600×1200: 55 to 65 Hz vertical refresh	640×480: 60 to 120 Hz vertical refresh 800×600: 55 to 120 Hz vertical refresh 832×624: 55 to 120 Hz vertical refresh 1024×768: 55 to 102 Hz vertical refresh 1152×870: 55 to 89 Hz vertical refresh 1280×1024: 55 to 76 Hz vertical refresh 1600×1200: 55 to 65 Hz vertical refresh
<b>Synchronization Range:</b>	Horizontal: 31 kHz to 69 kHz Vertical: 55 Hz to 120 Hz	Horizontal: 31 kHz to 82 kHz Vertical: 55 Hz to 120 kHz	Horizontal: 31 kHz to 82 kHz Vertical: 55 Hz to 120 kHz
<b>Maximum Video Input Bandwidth:</b>	119 MHz	177 MHz	177 MHz
<b>Active Display Area:</b> (Factory Setting)	Horizontal: 270 mm, 10.6" Vertical: 202 mm, 8.0" (dependent upon signal timing used)	Horizontal: 306 mm, 12.0" Vertical: 230 mm, 9.1" (dependent upon signal timing used)	Horizontal: 390 mm, 15.4" Vertical: 293 mm, 11.5" (dependent upon signal timing used)
<b>Active Display Area:</b> (Full Scan)	Horizontal: 280 mm, 11.0" Vertical: 210 mm, 8.3" (dependent upon signal timing used)	Horizontal: 316 mm, 12.4" Vertical: 237 mm, 9.3" (dependent upon signal timing used)	Horizontal: 402 mm, 15.8" Vertical: 301 mm, 11.9" (dependent upon signal timing used)
<b>Input Signal:</b>	Video: ANALOG 0.7 Vp-p/75 Ohms positive Sync: Separate sync. TTL level Horizontal sync positive/negative Vertical sync positive/negative Composite sync TTL level positive/negative	Video: ANALOG 0.7 Vp-p/75 Ohms positive Sync: Separate sync. TTL level Horizontal sync positive/negative Vertical sync positive/negative Composite sync TTL level positive/negative	Video: ANALOG 0.7 Vp-p/75 Ohms positive Sync: Separate sync. TTL level Horizontal sync positive/negative Vertical sync positive/negative Composite sync TTL level positive/negative Sync. on Green video (positive) 0.7 Vp-p and Sync. (negative) 0.3 Vp-p
<b>Display Colors:</b>	Analog Input: unlimited colors (dependent on video card used)	Analog input: unlimited colors (dependent on video card used)	Analog input: unlimited colors (dependent on video card used)
<b>Power Management:</b>	IPM™ (Intelligent Power Manager) system, EPA Energy Star, NUTEK based upon VESA DPMS 4 states	IPM™ (Intelligent Power Manager) system, EPA Energy Star, NUTEK based upon VESA DPMS 4 states	IPM™ (Intelligent Power Manager) system, EPA Energy Star, NUTEK based upon VESA DPMS 4 states
<b>User Controls:</b>	Power, degauss, brightness, contrast, horizontal size, horizontal position, vertical size, vertical position, basic geometry (sides: in/out; left/right balance; align), AccuColor, display mode (current mode: H. Freq; V. Freq), IPM, all reset	Power, degauss, brightness, contrast, horizontal size, horizontal position, vertical size, vertical position, basic geometry (sides: in/out; left/right balance; align), AccuColor, display mode (current mode: H. Freq; V. Freq), IPM, all reset	Power, degauss, brightness, contrast, horizontal size, horizontal position, vertical size, vertical position, AccuColor, geometry (sides: in/out; left/right balance; tilt; align; rotate), GlobalSync, OSM location, OSM turn off time (10, 20, 30, 60 and 120 seconds), OSM lock-out, display mode (current mode: H. Freq; V. Freq; H. Pol; V. Pol), language select (English, German, French, Spanish, Italian, Swedish), linearity (center, top/bottom), moiré canceler, IPM, fitness tips
<b>Advanced Communications:</b>	Plug and Play	Plug and Play	Plug and Play
<b>Signal Cable:</b>	Captive 15-pin mini D-sub connector	Captive 15-pin mini D-Sub connector	Captive 15-pin mini D-Sub connector
<b>Power Supply:</b>	100 - 120V AC, 50/60 Hz	100 - 120V AC, 50/60 Hz	100 - 120V AC, 50/60 Hz
<b>Current Rating:</b>	1.8 Amps	1.8 Amps	2.2 Amps
<b>Dimensions: (W x H x D):</b>	14.6×15.8×16.2 inches 372×402×412 mm	15.9×16.8×17.8 inches 403×426×453 mm	20.0×20.4 x 22.1 inches 509×519×560 mm
<b>Weight:</b>	33.2 lbs./15.1 kg	43 lbs./19.5 kg	68.4 lbs./31.0 kg
<b>Environmental:</b>	Operating temperature: 10°C to +35°C, +32°F to +95°F Humidity: 30% to 80%, 0-10,000 ft Storage temperature: -20°C to +60°C, -4°F to +140°F Humidity: 10% to 90%, 0-45,000 ft	Operating temperature: 10°C to +35°C, +32°F to +95°F Humidity: 30% to 80%, 0-10,000 feet Storage temperature: -20° to +60°, -4° to +140°F Humidity: 10% to 90%, 0-45,000	Operating temperature: 10°C to +35°C, +32°F to +95°F Humidity: 30% to 80%, 0-10,000 feet Storage temperature: -20° to +60°, -4° to +140°F Humidity: 10% to 90%, 0-45,000
<b>Regulatory Standards:</b>	UL 1950, CSA C22.2 No. 950, FCC Rules Part 15 Class B, DHHS Rules 21 CFR Sub-Chapter J, MPR-II, EPA Energy Star, ISO-9241-3, TCO-92 (filter required)	UL 1950, CSA C22.2 No. 220, FCC Rules Part 15 Class B, DHHS Rules 21 CFR Sub-Chapter J, MPR-II, EPA Energy Star ISO-9241-3, TCO-92 (filter required)	UL 1950, CSA C22.2 No. 220, FCC Rules Part 15 Class B, DHHS Rules 21 CFR Sub-Chapter J, MPR-II, EPA Energy Star, ISO-9241-3, TCO-92 (filter required)
<b>Limited Warranty:</b>	3 years CRT, parts and labor	3 years CRT, parts and labor	3 years CRT, parts and labor

For more information on NEC MultiSync monitors, including how to purchase, call **1-800-NEC-INFO**.

To receive more information immediately via fax, call NEC FastFacts™ at **1-800-366-0476** and request catalog #1.

To visit our World Wide Web home page, dial-in to the Internet at <http://www.nec.com>.

To speak to a technical support representative, call **1-800-632-4662** or dial-in to the Internet at [tech-support@nec.com](mailto:tech-support@nec.com).

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