

NEC

MULTISYNC® FE™ FAMILYMultiSync FE770, FE770M, FE771^{SB}, FE791^{SB}, FE990, FE991^{SB}, FE2111^{SB}**Features and Benefits**

Superior flat screen performance enhances users' visual experience with a host of advantages:

- **SuperBright™ Diamondtron® flat aperture grille CRT** delivers exceptional performance with unprecedented brightness, contrast and focus (FE771^{SB}, FE791^{SB}, FE991^{SB}, FE2111^{SB})
- **ClearFlat™ shadow mask CRT** provides a virtually flat image that reduces distortion and glare (FE770, FE770M, FE990)

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

Exclusive OptiClear® screen surface enhances focus and contrast while preventing dust buildup

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

NaViSet Administrator software utilizes the monitor's advanced control and diagnostics capabilities to provide IT professionals with remote access to monitor settings over their existing network

Asset management capability enables communication of monitor information to a central system via asset management software

Low power consumption reduces electricity costs and lowers total cost of ownership

Innovative design features a more compact cabinet with recessed cable connections to help free up valuable desktop space and blend into the user's environment

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

SEE MORE.™



The new MultiSync® FE™ Series.
A bright investment in intelligent design.

Smart, flat-screen monitors that create a

BRIGHTER

digital world



and reliable monitor solution. Users also can take advantage of the series' great value, which is driven by a low total cost of ownership (TCO).

Remarkable flat-screen performance. Using the latest in advanced flat-screen technologies, the MultiSync FE Series delivers the ultimate screen performance to your desktop. Flat screens provide benefits such as less glare for reduced eyestrain and fatigue, greater image sharpness for improved clarity, precision and accuracy, and a higher contrast ratio for enhanced legibility and fine detail. All of these benefits add up to a more enjoyable and comfortable visual experience. The MultiSync FE Series offers two flat-screen technologies to help you best meet your needs.

SuperBright Diamondtron, the latest generation of flat aperture grille CRT technology, provides exceptional performance with unprecedented focus and contrast and a virtually flat image that reduces distortion and glare. This CRT technology also delivers better brightness uniformity for consistent, true-to-life images and improved color saturation. With this kind of performance, what you see on-screen is as life-like as what you see on your printed output. Models featuring this technology include the 17" (16" VIS) MultiSync FE771^{SB}, 17" (16") MultiSync FE791^{SB}, 19" (18") MultiSync FE991^{SB} and 22" (20") MultiSync FE2111^{SB}.

With the simple touch of a button, the SuperBright mode for these models allows you to double the brightness level, while enhancing the crispness of images for clarity-conscious applications such as graphics, animation and video.

For users who do not require the degree of benefits offered by the SuperBright Diamondtron CRT, *ClearFlat shadow mask CRT technology* is available with the 17" (16" VIS) MultiSync FE770, 17" (16") multimedia-enhanced MultiSync FE770M and 19" (18") MultiSync FE990. This flat CRT delivers an outstanding visual experience that cuts down on distractions such as glare and reflection, while reducing user eyestrain.

Simplified control of screen settings. MultiSync FE Series monitors feature NEC's critically acclaimed On Screen Manager (OSM) for the most precise monitor adjustments available. A touch of the up-front controls activates the OSM, giving the user access to a comprehensive set of adjustments and an expanded display mode with monitor information such as vertical refresh rate and horizontal frequency. With its multitude of presets, the series is ready to go right out of the box.

Take your control a step further. Our exclusive NaViSet software (available by download) offers

Intelligent decisions drive the day-to-day success of the business world as well as our lives at home. In its engineering and design of the new MultiSync FE Series, NEC-Mitsubishi Electronics Display heeded this notion, creating a family of high-performance CRT monitors that make it easy for you to make the best choice in a visual display solution. Further, the MultiSync FE Series' ingenious technology and design, bright display and enhanced features allow you to work intelligently and maximize productivity.

The series features seven models, which are available in a white or black cabinet and in screen sizes from 17" to 22". These monitors are ideal for performance-driven business and home users seeking a bright

Quick Specs



FE770



FE770M



FE771^{SB}



FE791^{SB}

MultiSync FE Series

Viewable Size

Dot/Mask/Grille Pitch

Max. Resolution

Horizontal Frequency

16" /41 cm

0.21-0.25mm hor. dot pitch

1280 x 1024 @ 66 Hz

30-70 kHz

16" /41 cm

0.21-0.25mm hor. dot pitch

1280 x 1024 @ 66 Hz

30-70 kHz

16" /41 cm

0.25mm grille pitch

1280 x 1024 @ 66 Hz

30-70 kHz

16" /41 cm

0.25mm grille pitch

1600 x 1200 @ 76 Hz

30-96 kHz

an intuitive graphical user interface that allows the user to adjust 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 MultiSync FE Series units mentioned above. 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 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.

Asset management keeps managers up-to-speed. MultiSync FE Series monitors support asset management capability by adhering to VESA DDC and EDID standards. Based on these standards, information from the monitor—such as serial number, model name and date of manufacture—can be communicated to a central system using asset management software such as Microsoft's System Management Server.

An enhanced viewing experience. The OptiClear screen surface absorbs a portion of the ambient

light hitting the screen while allowing the screen image to be displayed without distortion. It also further reduces glare and reflection while enhancing the original contrast and clarity. The MultiSync FE2111^{SB} comes equipped with OptiClear+™, which provides for an even clearer image and increased durability.

Stretch out your investment. MultiSync FE Series CRT monitors are smart investments, and due in large part to their significantly reduced power consumption (up to 24% less compared to its predecessors), total cost of ownership (TCO) can be greatly reduced. The monitors' competitive up-front acquisition costs, high quality, easy setup and operation, reliable performance, high resale value, ease of recycling and disposal, and comprehensive service result in less time spent completing tasks and a reduction in maintenance and the costs they incur. These benefits also play a major role in yielding a lower TCO.

Bright ideas in design. In developing the MultiSync FE Series monitors, our engineers focused on the goal of their smooth integration into work and home environments. These monitors, which feature reduced cabinet size and bezel width as well as recessed cable connections, have been designed for easy, flexible integration into a variety of surroundings, including cramped areas and ergonomically challenged work spaces. This user-friendly design enables you to focus more on what is on-screen, enhancing not only your visual experience but your overall productivity. ErgoDesign® enhancements, which include a tilt/swivel base that easily adjusts to each user's preferred angle of vision, further increase comfort, productivity and ease of use.

Achieve accurate, consistent color. The MultiSync FE Series enables sRGB color-matching for precise

reproduction of still images, moving pictures and real-time videos. With sRGB, which can be accessed in the color menu of the OSM or NaViSet, on-screen colors can be reproduced with exactness in many applications, such as documents created via printers set to a corresponding setting.

Outstanding color clarity, purity and brightness. The exclusive AccuColor® control system allows you to adjust the monitor's red, green and blue color guns in precise digital steps. It also allows you to change the on-screen colors to closely match a variety of color standards, printer output, another monitor or a personal preference.

Enhanced edge-to-edge clarity. FullScan® capabilities allow you to view images at their best with true-to-life representation to the very edge of the screen, without a distracting black border.

Enhance your listening experience with multimedia capabilities. The MultiSync FE770M's integrated audio base provides quality sound for today's multimedia applications and eliminates the space required for separate external speakers. The monitor's audio base also includes a headphone jack for private listening. To create a multimedia-enhanced monitor solution with other MultiSync FE Series models, an optional audio base is available.

An overall lighter load. Not only do the value-driven MultiSync FE Series go lighter on your budget but, due to the advanced technologies used in its design, it has benefited from a significant decrease in weight (up to 9%) and parts (up to 21%) from its previous design. This translates into ease of portability and reduced shipping costs, which contributes to your low TCO.

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 limited 3-year warranty on all models guarantees your satisfaction.



FE990

FE991^{SB}

FE2111^{SB}

18"/45.8 cm

18"/45.8 cm

20"/50.8 cm

0.20-0.24mm hor. mask pitch

0.25-0.27mm grille pitch

0.24mm grille pitch

1792 x 1344 @ 68 Hz

1792 x 1344 @ 68 Hz

1920 x 1440 @ 75 Hz

30-96 kHz

30-96 kHz

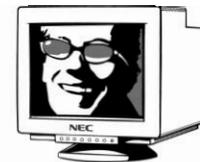
30-115 kHz

MultiSync FE Series Specifications

Model	MultiSync FE770, FE770M*	MultiSync FE771 ⁵⁸	MultiSync FE791 ⁵⁸	MultiSync FE990	MultiSync FE991 ⁵⁸	MultiSync FE2111 ⁵⁸
Model# / (Cabinet Color)	FE770 (White), FE770-BK (Black) FE770M (White Multimedia) FE770M-BK (Black Multimedia)	FE771 ⁵⁸ (White) FE771 ⁵⁸ -BK (Black)	FE791 ⁵⁸ (White) FE791 ⁵⁸ -BK (Black)	FE990 (White) FE990-BK (Black)	FE991 ⁵⁸ (White) FE991 ⁵⁸ -BK (Black)	FE2111 ⁵⁸ (White) FE2111 ⁵⁸ -BK (Black)
Picture Tube Diagonal Viewable Image Size Notes	17" /43 cm 16" /41 cm 0.21-0.25mm hor. dot pitch, 0.24-0.28mm diag. dot pitch, ClearFlat Shadow Mask CRT and OptiClear [®] screen surface	17" /43 cm 16" /41 cm 0.25mm grille pitch, SuperBright Diamondtron Aperture Grille CRT and OptiClear screen surface	17" /43 cm 16" /41 cm 0.25mm grille pitch, SuperBright Diamondtron Aperture Grille CRT and OptiClear screen surface	19" /48.3 cm 18" /45.8 cm 0.20-0.24mm hor. mask pitch 0.24-0.28mm diag. mask pitch, ClearFlat Shadow Mask CRT and OptiClear screen surface	19" /48.3 cm 18" /45.8 cm 0.25-0.27mm (variable) grille pitch, SuperBright Diamondtron Aperture Grille CRT and OptiClear screen surface	22" /55.8 cm 20" /50.8 cm 0.24mm grille pitch, SuperBright Diamondtron Aperture Grille CRT and OptiClear screen surface
Display Colors	Unlimited number of colors Depends on display card setting	Unlimited number of colors Depends on display card setting	Unlimited number of colors Depends on display card setting	Unlimited number of colors Depends on display card setting	Unlimited number of colors Depends on display card setting	Unlimited number of colors Depends on display card setting
Synchronization Range Horizontal Vertical Resolutions Supported (Resolution based on horizontal and vertical frequencies only)	30-70 kHz Automatically 50-120 Hz Automatically 640 x 480 @ 60-120 Hz 800 x 600 @ 50-110 Hz 832 x 624 @ 50-106 Hz 1024 x 768 @ 50-87 Hz 1152 x 864 @ 50-77 Hz 1280 x 1024 @ 50-66 Hz	30-70 kHz Automatically 50-120 Hz Automatically 640 x 480 @ 60-120 Hz 800 x 600 @ 50-110 Hz 832 x 624 @ 50-106 Hz 1024 x 768 @ 50-87 Hz 1152 x 864 @ 50-77 Hz 1280 x 1024 @ 50-66 Hz	30-96 kHz Automatically 50-160 Hz Automatically 640 x 480 @ 60-160 Hz 800 x 600 @ 50-146 Hz 832 x 624 @ 50-141 Hz 1024 x 768 @ 50-116 Hz 1152 x 864 @ 50-103 Hz 1280 x 1024 @ 50-89 Hz 1600 x 1200 @ 50-76 Hz	30-96 kHz Automatically 50-160 Hz Automatically 640 x 480 @ 60-160 Hz 800 x 600 @ 50-146 Hz 832 x 624 @ 50-141 Hz 1024 x 768 @ 50-116 Hz 1152 x 864 @ 50-103 Hz 1280 x 1024 @ 50-89 Hz 1600 x 1200 @ 50-76 Hz 1792 x 1344 @ 50-68 Hz	30-96 kHz Automatically 50-160 Hz Automatically 640 x 480 @ 60-160 Hz 800 x 600 @ 50-146 Hz 832 x 624 @ 50-141 Hz 1024 x 768 @ 50-116 Hz 1152 x 864 @ 50-103 Hz 1280 x 1024 @ 50-89 Hz 1600 x 1200 @ 50-76 Hz 1792 x 1344 @ 50-68 Hz	30-115 kHz Automatically 50-160 Hz Automatically 640 x 480 @ 60-160 Hz 800 x 600 @ 50-160 Hz 1024 x 768 @ 50-138 Hz 1280 x 1024 @ 50-105 Hz 1600 x 1200 @ 50-91 Hz 1792 x 1344 @ 50-81 Hz 1856 x 1392 @ 50-79 Hz 1920 x 1440 @ 50-76 Hz
Power Supply	AC100-120V/220-240V, 50/60 Hz	AC100-120V/220-240V, 50/60 Hz	AC100-120V/220-240V, 50/60 Hz	AC100-120V/220-240V, 50/60 Hz	AC100-120V/220-240V, 50/60 Hz	AC100-120V/220-240V, 50/60 Hz
Current Rating	1.5A @ 100-240V	1.5A @ 100-240V	1.9A @ 100-240V	1.9A @ 100-240V	2.2A @ 100-240V	1.35A @ 100-120V/0.65A @ 220-240V
Dimensions (W x H x D)	15.6 x 15.4 x 16.4" (FE770) 397 x 392 x 415.5mm 15.6 x 16.2 x 16.4" (FE770M) 397 x 411.5 x 415.5mm	15.6 x 15.4 x 16.4" 397 x 392 x 415.5mm	15.6 x 15.4 x 16.4" 397 x 392 x 415.5mm	17.4 x 17.4 x 17.6" 442 x 443 x 447.5mm	17.4 x 17.4 x 17.6" 442 x 443 x 447.5mm	19.5 x 19.1 x 18.5" 495 x 484.5 x 471mm
Weight	35.3 lbs./16 kg	37 lbs./16.8 kg	37.9 lbs./17.2 kg	48.7 lbs./22.1 kg	50 lbs./22.7 kg	63.9 lbs./29 kg
Regulatory Approvals	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, NUTEK, TCO-99 (FE770-BK and FE770M-BK TCO-95), CE, TUV	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, NUTEK, TCO-99 (FE771 ⁵⁸ -BK TCO-95), CE, TUV	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, NUTEK, TCO-99 (FE791 ⁵⁸ -BK TCO-95), CE, TUV	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, NUTEK, TCO-99 (FE990-BK TCO-95), CE, TUV	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, NUTEK, TCO-99 (FE991 ⁵⁸ -BK TCO-95), CE, TUV	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, NUTEK, TCO-99 (FE2111 ⁵⁸ -BK TCO-95), CE, TUV
Limited Warranty	3 years CRT, parts and labor	3 years CRT, parts and labor	3 years CRT, parts and labor	3 years CRT, parts and labor	3 years CRT, parts and labor	3 years CRT, parts and labor
Technical Support	24 hours /7 days	24 hours /7 days	24 hours /7 days	24 hours /7 days	24 hours /7 days	24 hours /7 days

*Specifications for Multimedia Base of MultiSync FE770M Monitor

Speakers	Two 2.2" / 57mm full range	Frequency Response	150-10 kHz	Audio Input Plug Type	3.5mm Stereo
Power	1 + 1 Watts @ 8 Ohms with 10% THD	Power Requirements	AC100-240V	Dimensions (W x H x D)	10.2 x 1.8 x 9.5"
Input Impedance	less than 10k Ohms	Current Rating	3.15A (Audio 0.15A, AC OUT 3A)	Weight (base only)	260 x 45 x 243mm
Input Sensitivity	500mV input for full output	Headphone Jack	Type 3.5mm Stereo	System Hardware Requirements	1.6 lbs. / 0.72 kg PC or Mac with sound capabilities



The new MultiSync[®] FE[™] Series.
A bright investment in intelligent design.

All specifications are the same for all models unless otherwise noted. MultiSync, AccuColor, OSM and OptiClear are registered trademarks and FE, NaViSet, SuperBright, ClearFlat and OptiClear+ are trademarks of NEC-Mitsubishi Electronics Display of America, Inc. Mac and Macintosh are registered trademarks of Apple Computer, Inc. ENERGY STAR is a U.S. registered trademark. All other brand or product names are trademarks or registered trademarks of their respective holders.
©2002 NEC-Mitsubishi Electronics Display of America. 04/02 ver.1.

NEC-Mitsubishi Electronics Display of America, Inc.
1250 N. Arlington Heights Road
Itasca, Illinois 60143-1248
888-NEC-MITS
www.necmitsubishi.com