

NEC

ACCUSYNC™ FAMILY

ACCUSYNC 50/50M, 70/70M, 90/90M, 120, 75F, 95F, 125F

HOME/GENERAL BUSINESS SERIES



NEC/MITSUBISHI
NEC-MITSUBISHI ELECTRONICS DISPLAY

Monitors with flexible options, value and **INNOVATION** to enhance your digital world.

For home, business and education settings, AccuSync Series monitors deliver excellent image quality and easy-to-use features at an exceptional value. This flexible series offers a variety of sizes and options to accommodate virtually every user's needs.

The full line includes 15", 17", 19", 21" and 22" models with multimedia versions available in 15", 17" and 19" sizes, delivering excellent sound quality for public or private listening. The 17" AccuSync 75F, 19" AccuSync 95F and 22" AccuSync 125F feature enhanced flat-screen technology. The 17" models, the 19" AccuSync 90 and the 21" AccuSync 120 are available in either a white or black cabinet.

Excellent image quality optimizes today's sophisticated applications. All members of the AccuSync family deliver outstanding screen performance with crisp, sharp, accurate images that enable comfortable viewing of text and graphics-intensive applications. AccuSync Series monitors feature fine dot pitches for clear, easy-to-read text and graphics and high-resolution

support for more on-screen information. They offer super-high refresh rates up to 160 Hz for stable, flicker-free images that can ease eyestrain and make viewing more comfortable. Their FullScan® capability also offers edge-to-edge images without a functionless black border.

The added advantage of flat. The advanced design of the AccuSync 75F, AccuSync 95F and AccuSync 125F flat-screen models doesn't simply improve image quality, it ensures significantly less glare, reflection and distortion than traditional curved screens. The innovative design of the ClearFlat™ shadow mask CRT (featured with the AccuSync 75F and 95F) and the flat aperture grille CRT (AccuSync 125F) deflect glare from overhead lighting away from users so that what they see on-screen is as realistic and lifelike as what they see on their printed output. This results in reduced eyestrain, less fatigue and improved comfort and productivity. The AccuSync flat CRTs—another alternative in this full line of value-minded monitors, with sizes, features and options to meet a wide variety of needs at a range of outstanding price points.

Dual Dynamic Beam Focus. This technology provides precise, continuous focus adjustments for optimum picture quality (feature not available on the 15" models).

Plug and Play compatibility enables easier setup and improves performance. To minimize setup and installation time with Windows® 95/98/2000/Me/XP, AccuSync Series monitors feature Plug and Play compatibility. Plug and Play allows the monitor to identify its capabilities—such as screen size and resolutions supported by 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 compliance saves energy costs. AccuSync Series monitors include the NEC Intelligent Power Manager™ (IPM) system, which allows the monitor to shift to a lower power consumption level when not in use. This can save up to two-thirds of your monitor energy costs while your monitor is idling. (To realize the benefits

Quick Specs

AccuSync® Series

Viewable Size

Dot Pitch

Max. Resolution

Horizontal Frequency



50/50M



70/70M



90/90M



120

Flat Screen Series



75F

Viewable Size	13.8" (15" CRT)	16" (17" CRT)	18" (19" CRT)	20" (21" CRT)	16" (17" CRT)
Dot Pitch	0.28mm 0.24mm horizontal	0.27mm 0.23mm horizontal	0.26mm 0.22mm horizontal	0.25mm 0.22mm horizontal	0.24-0.28mm 0.21-0.25mm horizontal
Max. Resolution	1280 x 1024 @ 66 Hz	1280 x 1024 @ 66 Hz	1600 x 1200 @ 76 Hz	1600 x 1200 @ 76 Hz	1280 x 1024 @ 66 Hz
Horizontal Frequency	31-70 kHz	31-70 kHz	31-96 kHz	31-96 kHz	31-70 kHz



AccuSync multimedia models
 Featured on the 50M, 70M and 90M, the AccuSync multimedia capabilities deliver outstanding sound quality and free up desk space. Multimedia performance—just one of the value-minded options in the full AccuSync line.

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

PC and Macintosh® compatibility adds flexibility for the future. AccuSync Series monitors are fully compatible with PC and Macintosh computers, giving you the flexibility to change platforms or use both without having to purchase a second monitor. In addition, AccuSync monitors are compatible with a variety of resolutions, ensuring that your monitor will grow with you as your needs change.

ErgoDesign® enhancements increase comfort, productivity and ease of use. AccuSync Series monitors are designed according to NEC ErgoDesign philosophy. ErgoDesign enhancements adapt technology to the way you work, resulting in increased comfort and ease of use.

Asset management capability assists managers.

AccuSync 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, timing data and color settings—can be communicated to a central system using asset management software.

NEC-Mitsubishi designs all AccuSync monitors with total cost of ownership (TCO) in mind. From superior product support to excellent compatibility, from energy-efficient technologies to a comprehensive 3-year limited warranty, all facets of NEC AccuSync monitors have been engineered to maximize performance while minimizing TCO.

Features and Benefits

ClearFlat shadow mask CRT (featured with the AccuSync 75F and 95F) and flat aperture grille CRT (AccuSync 125F) deliver an outstanding screen performance with a virtually flat image, eliminating distortion and reducing glare so that what you see on-screen is as realistic and lifelike as what you see on your printed output

Outstanding screen performance provides you with a more comfortable visual experience with crisp, sharp and accurate images

Flexible options in screen sizes and types, advanced technologies, cabinet colors and multimedia capabilities allow you to match your display needs

FullScan capabilities let you view images at their best, with true-to-life representation to the very edge of the screen and no distracting black border

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

PC and Macintosh compatibility allows for flexible system support with multiple resolutions

Exclusive OptiClear® screen surface virtually eliminates glare while enhancing focus and contrast and preventing dust buildup

Fine dot pitches create crisp, easy-to-read text and graphics

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

SEE MORE.™



95F	125F
18" (19" CRT)	22" (20" CRT)
0.24-0.28mm mask	0.24mm grille pitch
0.20-0.24mm horiz. mask	
1600 x 1200 @ 76 Hz	1600 x 1200 @ 76 Hz
31-96 kHz	31-96 kHz

AccuSync 50/50M, 70/70M, 90/90M, 120, 75F, 95F, 125F Specifications

Model #/Cabinet Color	AS50/AS50M (White)	AS70/AS70M/AS75F (White) AS70/AS70M/AS75F (Black)	AS90/AS90M/AS95F (White) AS90 (Black)	AS120 (White) AS120 (Black)	AS125F (White)
Picture Tube	15" (13.8" viewable image size), 1080mm radius, 90° deflection, 0.28mm dot pitch; horizontal 0.24mm, medium short persistence phosphor, multi-layered, anti-static screen coating, semi-tint screen, Invar Shadow Mask and OptiClear® screen surface.	17" (16" viewable image size), 1210mm radius, 90° deflection, 0.27mm dot pitch; horizontal 0.23mm, 0.24-0.28mm flat dot pitch (75F); horizontal 0.21-0.25mm (75F), medium short persistence phosphor, multi-layered, anti-static screen coating, semi-tint screen, Invar Shadow Mask and OptiClear® screen surface.	19" (18" viewable image size), 1360mm radius, 90° deflection, 0.26mm dot pitch; horizontal 0.22mm, 0.24-0.28mm flat mask pitch (95F); horizontal 0.20-0.24mm flat mask pitch (95F), medium short persistence phosphor, multi-layered, anti-static screen coating, semi-tint screen, Invar Shadow Mask and OptiClear® screen surface.	21" (20" viewable image size) (53 cm/50.2 cm visual) Flat Square Tube, Invar Shadow Mask, Dark Body Tube, 0.25mm dot pitch, horizontal 0.22mm, Double Dynamic Focus 90° Deflection, B22 Medium Short Persistence, 44% Transmission, W-ARAS (wide band anti-reflection and anti-static charge)	22" (20" viewable image size) (55.8 cm/50.8 vis) 90° deflection, 0.24mm grille pitch, medium short persistence phosphor, flat aperture grille CRT, multi-layered, anti-static coating, dark-tint screen and OptiClear+ screen surface
Input signal Video	ANALOG 0.7Vp-p/75 Ohms	ANALOG 0.7Vp-p/75 Ohms	ANALOG 0.7Vp-p/75 Ohms	Analog RGB 0.7 Vp-p/75 Ohms Positive	Analog 0.7 Vp-p/75 Ohms
Sync horizontal vertical	Separate sync: TTL Level Positive/Negative Positive/Negative	Separate sync: TTL Level Positive/Negative Positive/Negative	Separate sync: TTL Level Positive/Negative Positive/Negative	H/V separate: TTL Positive/Negative H/V composite TTL Level	Separate sync TTL level Positive/Negative Positive/Negative Composite Sync (positive/negative) (TTL Level)
Display Colors: Analog Input	unlimited number of colors (depends on display card used)	unlimited number of colors (depends on display card used)	unlimited number of colors (depends on display card used)	unlimited number of colors (depends on display card used)	unlimited number of colors (depends on display card used)
Synchronization Range Horizontal Vertical	31-70 kHz (automatically) 55-120 Hz (automatically)	31-70 kHz (automatically) 55-120 Hz (automatically)	31-96 kHz (automatically) 55-160 Hz (automatically)	31-96 kHz 55-160 Hz	31-96 kHz 55-160 Hz
Resolutions Supported (Resolutions based on horizontal and vertical frequencies only)	640 x 480 @ 60-120 Hz 800 x 600 @ 55-110 Hz 832 x 624 @ 55-106 Hz 1024 x 768 @ 55-87 Hz* 1152 x 870 @ 55-77 Hz 1280 x 1024 @ 55-66 Hz *(Some systems may not support all models listed)	640 x 480 @ 60-120 Hz 800 x 600 @ 55-110 Hz 832 x 624 @ 55-106 Hz 1024 x 768 @ 55-87 Hz* 1152 x 870 @ 55-77 Hz 1280 x 1024 @ 55-66 Hz	640 x 480 @ 60-160 Hz 800 x 600 @ 55-153 Hz 832 x 624 @ 55-144 Hz 1024 x 768 @ 55-120 Hz 1152 x 870 @ 55-105 Hz 1280 x 1024 @ 55-89 Hz* 1600 x 1200 @ 55-76 Hz	640 x 480 @ 60-188 Hz 800 x 600 @ 55-152 Hz 832 x 624 @ 55-144 Hz 1024 x 768 @ 55-119 Hz 1152 x 870 @ 55-105 Hz 1280 x 1024 @ 55-89 Hz* 1600 x 1200 @ 55-76 Hz	640 x 480 @ 50-160 Hz 800 x 600 @ 50-146 Hz 832 x 624 @ 50-141 Hz 1024 x 768 @ 50-116 Hz 1152 x 870 @ 50-103 Hz 1280 x 1024 @ 50-89 Hz 1600 x 1200 @ 50-76 Hz
Factory Setting Active Display Area Horizontal Vertical	Factory Preset 270mm/10.6" 203mm/8" (Dependent on signal timing used, and does not include border area)	Factory Preset 310mm/12.2" 232mm/9.1" (Dependent on signal timing used, and does not include border area)	Factory Preset 356mm/14" 267mm/10.5" (Dependent on signal timing used, and does not include border area)	Factory Preset 390mm/15.4" 293mm/11.5" (Dependent on signal timing used, and does not include border area)	396mm/15.6" 297mm/11.7" (Dependent on signal timing used, and does not include border area)
(Full Scan) Active Display Area Horizontal Vertical	(Full Scan) 280mm/11" 210mm/8.3" (Dependent on signal timing used, and does not include border area)	(Full Scan) 325mm/12.8" 244mm/9.6" (Dependent on signal timing used, and does not include border area)	(Full Scan) 366mm/14.4" 274mm/10.8" (Dependent on signal timing used, and does not include border area)	(Full Scan) 406mm/16" 305mm/12" (Dependent on signal timing used, and does not include border area)	305mm/16" 305mm/12"
Power Supply	AC 100-240 V, 50/60 Hz	AC 100-240 V, 50/60 Hz	AC 100-240 V, 50/60 Hz	AC 100-240 V, 50/60 Hz	AC 120-240 V, 50/60 Hz
Current Rate	1.5 A @ 100-240 V	1.8 A @ 100-240 V	2.2 A @ 100-240 V	120 V=2.5 A/240 V=1.2 A	120 V=1.8 A /240 V=1.2 A
Dimensions	360 x 380 x 381mm 14.2 x 15 x 15" (w/o audio base); 360 x 389 x 381mm 14.2 x 15.3 x 15" (w/audio base)	403 x 420 x 420mm 15.9 x 16.5 x 16.5" (AS 70/75F); 403 x 429 x 428mm 15.9 x 16.9 x 16.5" (AS 70M)	442 x 453 x 455mm 17.4 x 17.8 x 17.9" (AS 90/90F); 442 x 462 x 455mm 17.4 x 18.2 x 17.9" (AS 90M)	498 x 510 x 512mm 19.6 x 20.1 x 20.2" 576 x 644 x 628mm 22.7 x 25.4 x 24.7"	495 x 493 x 472mm 19.5 x 19.4 x 18.6" 626 x 643 x 632mm 24.6 x 25.3 x 24.9"
Weight	12.1 kg (w/o audio base) 26.7 lbs (w/o audio base) 12.6 kg (w/audio base) 27.8 lbs (w/audio base)	15.4 kg (w/o audio base) 34 lbs (w/o audio base) 15.9 kg (w/audio base) 35.1 lbs (w/audio base) 16.7 kg (75F); 36.8 lbs (75F)	20 kg (w/o audio base) 44.1 lbs (w/o audio base) 20.5 kg (w/audio base) 45.2 lbs (w/audio base) 22 kg (95F); 48.5 lbs (95F)	Net: 30 kg (66.1 lbs) Gross: 35 kg (77 lbs)	Net: 29.9 kg (66 lbs.) Gross: 35 kg (77 lbs.)
Environmental Conditions	Operating Temperature: 0-35°C Humidity: 30-80% Altitude: 0-10,000 ft. Storage Temperature: -20-60°C Humidity: 10-90% Altitude: 0-45,000 ft.	Operating Temperature: 0-35°C Humidity: 30-80% Altitude: 0-10,000 ft. Storage Temperature: -20-60°C Humidity: 10-90% Altitude: 0-45,000 ft.	Operating Temperature: 0-35°C Humidity: 30-80% Altitude: 0-10,000 ft. Storage Temperature: -20-60°C Humidity: 10-90% Altitude: 0-45,000 ft.	Operating Temperature: 0-35°C Humidity: 30-80% Altitude: 0-10,000 ft. Storage Temperature: -20-60°C Humidity: 10-90% Altitude: 0-45,000 ft.	Operating Temperature: 0-35°C Humidity: 30-80% Altitude: 0-10,000 ft. Storage Temperature: -20-60°C Humidity: 10-90% Altitude: 0-45,000 ft.
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

All specifications are the same for all models unless otherwise noted. FullScan, OSM, OptiClear and ErgoDesign are registered trademarks and ClearFlat, AccuSync, OptiClear+, Reduced Magnetic Field, IPM, and IntelliBase are trademarks of NEC-Mitsubishi. 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. Product specifications subject to change. 9/02 ver.2.

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1250 North Arlington Heights Road
Itasca, Illinois 60143-1248
888-NEC-MITS
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