

ACCUSYNC FAMILY™

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



Outstanding screen performance

Users enjoy a more comfortable viewing experience with crisp, sharp, accurate images

Flexible Options

Range of sizes, two technologies, multimedia options

Edge-to-Edge Clarity

FullScan™ capabilities let users 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 control of your screen settings—adjust to your preference in a snap

PC and Macintosh® compatible

Flexible system support with multiple resolutions compatible with most PC and Macintosh models

Exclusive OptiClear® Screen surface

Virtually eliminates glare while enhancing focus and contrast and preventing dust build-up

Fine dot pitches

Create crisp, easy-to-read text and graphics

Industry-leading brand

Provides the assurance of owning a monitor by a recognized leader in display technology

NEC/MITSUBISHI
NEC-MITSUBISHI ELECTRONICS DISPLAY

SEE MORE.

AccuSync: monitors with flexible options, value and **INNOVATION** make the difference.

For home, business and education settings, AccuSync Series monitors offer users 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" and 21" models with multimedia versions available in 15", 17" and 19" sizes, delivering excellent sound quality for public or private listening. The newest additions to the series, the 17" (16" VIS) AccuSync 75F and the 19" (18" VIS) AccuSync 95F, feature enhanced flat-screen technology.

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 today's text and graphics-intensive applications. AccuSync Series monitors feature fine dot pitch for clear, easy-to-read text and graphics and high-resolution support for more information on-screen. They also offer super high refresh rates up to 188 Hz for stable, flicker-free images that can ease eye-strain and make viewing more comfortable. Their FullScan™ capability also offers edge-to-edge images without a functionless black border.

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

Quick Specs

NEC

AccuSync® Series



50/50M

70/70M

90/90M

120

75F

Viewable Size

13.8" (15" CRT)

16.0" (17" CRT)

18.0" (19" CRT)

20.0" (21" CRT)

16.0" (17" CRT)

Dot Pitch

0.28/0.24 mm horizontal

0.27/0.23 mm horizontal

0.26/0.22 mm horizontal

0.25/0.22 mm horizontal

0.25/0.22 mm 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 kHz–70 kHz

31 kHz–70 kHz

31 kHz–96 kHz

31 kHz–96 kHz

31 kHz–70 kHz

Plug and Play compatibility enables easier setup and improves performance. To minimize setup and installation time with Windows® 98, 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 NEC IPM™ (Intelligent Power Manager) system that 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 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.)

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.



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

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 three-year limited warranty, all facets of NEC

AccuSync monitors have been engineered to maximize performance while minimizing TCO.

The added advantage of flat. The advanced design of the AccuSync 75F and AccuSync 95F flat screen models doesn't simply improve image quality, it ensures significantly less glare, reflection and distortion than traditional curved screens. Unlike traditional curved-screen CRTs, the innovative design of the AccuSync 75F and AccuSync 95F deflects glare from overhead lighting away from users for a more comfortable and productive viewing experience. This results in reduced eyestrain, less fatigue and improved 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.



95F
18.0" (19" CRT)
0.25/0.22 mm horizontal
1600 x 1200 @ 76 Hz
31 kHz–96 kHz

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

NEC

	50/50M	70/70M/75F	90/90M/95F	120
Picture Tube	15.0" (13.8" viewable image size), 1080 mm radius, 90° deflection, 0.28 mm dot pitch; horizontal 0.24 mm, medium short persistence phosphor, multi-layered, anti-static screen coating, semi-tint screen, Invar Shadow Mask and OptiClear® screen surface.	17.0" (16.0" viewable image size), 1210 mm radius, 90° deflection, 0.27 mm dot pitch; horizontal 0.23 mm, 0.25 mm flat dot pitch (75F); horizontal 0.22 mm (75F), medium short persistence phosphor, multi-layered, anti-static screen coating, semi-tint screen, Invar Shadow Mask and OptiClear® screen surface.	19.0" (18.0" viewable image size), 1360 mm radius, 90° deflection, 0.26 mm dot pitch; horizontal 0.22 mm, 0.25 mm flat dot pitch (95F); horizontal 0.22 mm (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, 0.25 mm dot pitch, horizontal 0.22 mm, Double Dynamic Focus 90° Deflection, B22 Medium Short Persistence, 44% Transmission, W-ARASC (wide band anti-reflection and anti-static charge)
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
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
Display Colors: Analog Input	unlimited number of colors (dependent upon display card)	unlimited number of colors (dependent upon display card)	unlimited number of colors (dependent upon display card)	unlimited number of colors (dependent upon display card)
Synchronization Range Horizontal Vertical	31 kHz to 70 kHz (automatically) 55 Hz to 120 Hz (automatically)	31 kHz to 70 kHz (automatically) 55 Hz to 120 Hz (automatically)	31 kHz to 96 kHz (automatically) 55 Hz to 160 Hz (automatically)	31 kHz to 96 kHz 55 Hz to 160 Hz
Resolutions Supported (Resolutions based on horizontal and vertical frequencies only)	640 x 480 @ 60 to 120 Hz 800 x 600 @ 55 to 110 Hz 832 x 624 @ 55 to 106 Hz 1024 x 768 @ 55 to 87 Hz* 1152 x 870 @ 55 to 77 Hz 1280 x 1024 @ 55 to 66 Hz	640 x 480 @ 60 to 120 Hz 800 x 600 @ 55 to 110 Hz 832 x 624 @ 55 to 106 Hz 1024 x 768 @ 55 to 87 Hz* 1152 x 870 @ 55 to 77 Hz 1280 x 1024 @ 55 to 66 Hz	640 x 480 @ 60 to 160 Hz 800 x 600 @ 55 to 153 Hz 832 x 624 @ 55 to 144 Hz 1024 x 768 @ 55 to 120 Hz 1152 x 870 @ 55 to 105 Hz 1280 x 1024 @ 55 to 89 Hz* 1600 x 1200 @ 55 to 76 Hz	640 x 480 @ 60 to 188 Hz 800 x 600 @ 55 to 152 Hz 832 x 624 @ 55 to 144 Hz 1024 x 768 @ 55 to 119 Hz 1152 x 870 @ 55 to 105 Hz 1280 x 1024 @ 55 to 89 Hz* 1600 x 1200 @ 55 to 76 Hz
	*(Some systems may not support all models listed)			
Active Display Area Horizontal Vertical	Factory Preset 270 mm/10.6" 203 mm/8.0" (Dependent on signal timing used, and does not include border area)	Factory Preset 310 mm/12.2" 232 mm/9.1" (Dependent on signal timing used, and does not include border area)	Factory Preset 356 mm/14.0" 267 mm/10.5" (Dependent on signal timing used, and does not include border area)	Factory Preset 390 mm/15.35" 293 mm/11.5" (Dependent on signal timing used, and does not include border area)
Active Display Area Horizontal Vertical	(Full Scan) 280 mm/11.0" 210 mm/8.3" (Dependent on signal timing used, and does not include border area)	(Full Scan) 325 mm/12.8" 244 mm/9.6" (Dependent on signal timing used, and does not include border area)	(Full Scan) 366 mm/14.4" 274 mm/10.8" (Dependent on signal timing used, and does not include border area)	(Full Scan) 406 mm/16.0" 305 mm/12.0" (Dependent on signal timing used, and does not include border area)
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 VAC, 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
Dimensions	360 mm x 380 mm x 381 mm 14.2" x 15.0" x 15.0" (w/o audio base); 360 mm x 389 mm x 381 mm 14.2" x 15.3" x 15.0" (w/audio base)	403 mm x 420 mm x 420 mm 15.9" x 16.5" x 16.5" (AS 70/75F); 403 mm x 429 mm x 428 mm 15.9" x 16.9" x 16.5" (AS 70M)	442 mm x 453 mm x 455 mm 17.4" x 17.8" x 17.9" (AS 90/90F); 442 mm x 462 mm x 455 mm 17.4" x 18.2" x 17.9" (AS 90M)	498 mm x 510 mm x 512 mm 19.6" x 20.1" x 20.2" 576 mm x 644 mm x 628 mm 22.7" x 25.4" x 24.7"
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) 34.0 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)	20.0 kg (w/o audio base) 44.1 lbs (w/o audio base) 20.5 kg (w/audio base) 45.2 lbs (w/audio base) 22.0 kg (95F); 48.5 lbs (95F)	Net: 30.0 kg (66.1 lbs) Gross: 35.0 kg (77.0 lbs)
Environmental Conditions	Operating Temperature: 0°C to +35°C Humidity: 30% to 80% Altitude: 0 to 10,000 feet Storage Temperature: -20°C to +60°C Humidity: 10% to 90% Altitude: 0 to 45,000 feet	Operating Temperature: 0°C to +35°C Humidity: 30% to 80% Altitude: 0 to 10,000 feet Storage Temperature: -20°C to +60°C Humidity: 10% to 90% Altitude: 0 to 45,000 feet	Operating Temperature: 0°C to +35°C Humidity: 30% to 80% Altitude: 0 to 10,000 feet Storage Temperature: -20°C to +60°C Humidity: 10% to 90% Altitude: 0 to 45,000 feet	Operating Temperature: 0°C to +35°C Humidity: 30% to 80% Altitude: 0 to 10,000 feet Storage Temperature: -20°C to +60°C Humidity: 10% to 90% Altitude: 0 to 45,000 feet
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

All specifications are the same for all models unless otherwise noted. MultiSync, OptiClear, AccuColor and ErgoDesign are registered trademarks and AccuSync, FullScan, OSM, 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.

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