NEC MultiSync® EA Series

High-performance desktop LCD monitors ideal for corporate environments

ECO MODE

Take your productivity to new heights. Ranging from 19" to 26" in size and offering TN, PVA and IPS panel options, MultiSync EA Series models tout flexibility for a number of applications and environments, meeting the diverse needs of businesses of all kinds. With this series, NEC has developed desktop displays that combine cutting-edge technologies with award-winning design accents, giving you the ability to increase your productivity while adding a modern flair to your desktop.

It's easy to be green. The MultiSync EA Series is loaded with features that promote environmental consciousness. The EA192M, EA222WMe and EA232WMi set the bar for "green" technology by using LED backlighting, which is more energy-efficient. Compared to previous generation NEC LCDs, these models consume up to 52% less power overall, radiate up to 61% less heat, use up to 15% less packaging, weigh up to 25% less, utilize recycled plastics in their production and are free of hazardous materials such as mercury, halogen and arsenic. Other eco-friendly benefits include ECO Mode™, auto brightness, Intelligent Power Manager (IPM) and an off timer for further energy savings, a resettable carbon footprint meter for tracking the conservation of green gas emissions, and a significant reduction in packaging materials. In addition, the EA222WMe was recognized with a TCO Certified Edge award for being among the first electronic products to be manufactured completely free from halogens such as bromine and chlorine, which are used to prevent electrical fires.

Wide compatibility for today and tomorrow. With Ambix® dual-input technology— which utilizes both DVI-D 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. The EA192M, EA222WMe and EA232WMi feature DisplayPort for even more enhanced compatibility.

Features & Benefits

LED backlight technology provides for industry-leading low power consumption and less hazardous materials (EA192M, EA222WMe & EA232WMi)

Height-adjust (110mm), pivot, tilt and swivel capabilities add flexibility and comfort to your viewing preferences

Integrated 4-port USB 2.0 hub gives you convenient connections to peripherals (except EA192M & EA191M)

Built-in multimedia speakers with headphone jack afford you increased desktop space and organization

DisplayPort input provides expanded connectivity with advanced technology (EA192M, EA222WMe & EA232WM)

Ambient light sensor minimizes power consumption by automatically adjusting the brightness to the optimal setting depending on ambient lighting, screen content or both (EA192M, EA222WMe & EA232WMi)

ECO Mode allows you to manually adjust the display's brightness to two preset settings, saving more power and reducing your energy costs

Intelligent Power Manager (IPM) system and off timer provide innovative power-saving methods and reduce CO_2 emissions by shifting to a lower power consumption level or automatically powering down when the monitor is on but not in use

Resettable carbon footprint meter helps track and calculate the savings of green gas emissions

Resettable cost meter (via On Screen Display) indicates electricity cost savings based on currency settings (EA192M, EA222WMe & EA232WMi)

Dynamic Video Mode enhances video and images with real-time optimization of brightness, color and contrast

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

ENERGY STAR® 5.0 and TCO 5.1 qualifications reduce electrical costs and lower total cost of ownership

EPEAT Gold and Silver compliance ensures the displays reduce hazardous waste and electricity usage, resulting in lower energy costs and increased protection for the environment

NEC Display Solutions' quality and reliability provide peace of mind with a 3-year limited parts and labor warranty (including backlight) and unrivaled customer service and technical support

NEC

Model	MultiSync EA192M	MultiSync EA191M	MultiSync EA221WM	MultiSync EA222WMe	MultiSync EA232WMi	MultiSync EA241WM	MultiSync EA261WM
Display							
Viewable Image Size	19"	19"	22"	22"	23"	24"	26"
Pixel Pitch	0.294mm	0.294mm	0.282mm	0.282mm	0.265mm	0.270mm	0.292mm
Pixels Per Inch	86 @ native resolution	86 @ native resolution	90 @ native resolution	90 @ native resolution	96 @ native resolution	94 @ native resolution	87 @ native resolution
Brightness (typical)	250 cd/m²	250 cd/m²	250 cd/m²	250 cd/m²	250 cd/m²	400 cd/m²	400 cd/m²
Contrast Ratio (typical)	1000:1 (25,000:1 dynamic)	1500:1	1000:1	1000:1	1000:1 (25,000:1 dynamic)	1000:1	1000:1
Viewing Angle (typical)	170° Vert., 176° Hor. (85U/85D/88L/88R) (CR > 5)	170° Vert., 176° Hor. (88U/88D/88L/88R) (CR > 10)	170° Vert., 176° Hor. (85U/85D/88L/88R) (CR > 5)	160° Vert., 170° Hor. (75U/85D/88L/88R) (CR > 5)	178° Vert., 178° Hor. (89U/89D/89L/89R) (CR > 10)	160° Vert., 160° Hor. (80U/80D/80L/80R) (CR > 10)	160° Vert., 160° Hor. (80U/80D/80L/80R) (CR > 10)
Response Time (typical)	Rapid Response (5ms)	Rapid Response (25ms)	Rapid Response (5ms)	Rapid Response (5ms)	Rapid Response (14ms)	Rapid Response (5ms)	Rapid Response (5ms)
Display Colors	More than 16.7million	More than 16.7million	More than 16.7million	More than 16.7million	More than 16.7million	More than 16.7million	More than 16.7million
Synchronization Range							
Horizontal	31.5-81.1KHz (Analog/Digital)	31.5-81.1KHz (Analog/Digital)	31.5-81.1KHz (Analog/Digital)	31.5-82.3KHz (Analog/Digital)	31.5-83KHz (Analog/Digital)	31.5-81.1KHz (Analog/Digital)	31.5-81.1KHz (Analog/Digital)
Vertical	56-75Hz (Analog/Digital)	56-75Hz (Analog/Digital)	56-75Hz (Analog/Digital)	56-75Hz (Analog/Digital)	56-75Hz (Analog/Digital)	56-76Hz (Analog/Digital)	56-76Hz (Analog/Digital)
Input Signal							
Video	Analog 0.7 Vp-p / 75 Ohms	Analog 0.7 Vp-p / 75 Ohms	Analog 0.7 Vp-p / 75 Ohms	Analog 0.7 Vp-p / 75 Ohms	Analog 0.7 Vp-p / 75 Ohms	Analog 0.7 Vp-p / 75 Ohms	Analog 0.7 Vp-p / 75 Ohms
Sync	Separate Sync: TTL Level (positive/negative)	Separate Sync: TTL Level (positive/negative)	Separate Sync: TTL Level (positive/negative)	Separate Sync: TTL Level (positive/negative)	Separate Sync: TTL Level (positive/negative)	Separate Sync: TTL Level (positive/negative)	Separate Sync: TTL Level (positive/negative)
Inputs	DVI-D, VGA 15-pin D-Sub and DisplayPort	DVI-D and VGA 15-pin D-Sub	DVI-D and VGA 15-pin D-Sub	DVI-D, VGA 15-pin D-Sub and DisplayPort	DVI-D, VGA 15-pin D-Sub and DisplayPort	DVI-D and VGA 15-pin D-Sub	DVI-D and VGA 15-pin D-Sub
Resolutions Supported	Analog/Digital 720 x 350 @ 70 Hz 720 x 400 @ 70 Hz 640 x 480 @ 60-75 Hz 800 x 600 @ 56-75 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-75 Hz 1152 x 864 @ 75 Hz 1152 x 870 @ 75 Hz 1280 x 720 @ 60 Hz 1280 x 768 @ 60 Hz 1280 x 960 @ 60 Hz 1280 x 1024 @ 60-75 Hz	Analog/Digital 720 x 400 @ 70 Hz 640 x 480 @ 60-75 Hz 800 x 600 @ 56-75 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-75 Hz 1152 x 864 @ 70-75 Hz 1152 x 870 @ 75 Hz 1280 x 960 @ 60-75 Hz 1280 x 1024 @ 60-75 Hz	Analog/Digital 720 x 400 @ 70 Hz 640 x 480 @ 60-75 Hz 800 x 600 @ 56-75 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-75 Hz 1152 x 864 @ 70-75 Hz 1152 x 870 @ 75 Hz 1280 x 960 @ 60-75 Hz 1280 x 1024 @ 60-75 Hz 1360 x 768 @ 60 Hz 1440 x 900 @ 60-75 Hz 1440 x 1050 @ 60-70 Hz 1680 x 1050 @ 60 Hz	Analog/Digital 720 x 400 @ 70 Hz 640 x 480 @ 60-75 Hz 800 x 600 @ 56-75 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-75 Hz 1152 x 864 @ 70-75 Hz 1152 x 870 @ 75 Hz 1280 x 960 @ 60-75 Hz 1280 x 1024 @ 60-75 Hz 1360 x 768 @ 60 Hz 1440 x 900 @ 60-75 Hz 1440 x 1050 @ 60-70 Hz 1680 x 1050 @ 60 Hz	Analog/Digital 720 x 400 @ 70 Hz 640 x 480 @ 60-75 Hz 800 x 600 @ 56-75 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-75 Hz 1152 x 864 @ 75 Hz 1152 x 870 @ 75 Hz 1280 x 760 @ 60 Hz 1280 x 768 @ 60-75 Hz 1280 x 960 @ 60 Hz 1280 x 1024 @ 60-75 Hz 1360 x 768 @ 60 Hz 1400 x 900 @ 60 Hz 1400 x 1050 @ 60-75 Hz 1680 x 1050 @ 60 Hz 1600 x 1200 @ 60 Hz 1920 x 1200 @ 60 Hz 1920 x 1080 @ 60 Hz	Analog/Digital 720 x 350 @ 70-85 Hz 720 x 400 @ 70-85 Hz 640 x 480 @ 60-75 Hz 800 x 600 @ 56-75 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-75 Hz 1152 x 864 @ 75 Hz 1152 x 870 @ 75 Hz 1280 x 720 @ 60 Hz 1280 x 768 @ 60 Hz 1280 x 960 @ 60/75/85 Hz 1280 x 1024 @ 60-75 Hz 1360 x 768 @ 60 Hz 1440 x 900 @ 60 Hz 1440 x 1050 @ 60 Hz 1680 x 1050 @ 60 Hz 1600 x 1200 @ 60 Hz 1920 x 1200 @ 60 Hz	Analog/Digital 720 x 350 @ 70/85 Hz 720 x 400 @ 70/85 Hz 640 x 480 @ 60-75 Hz 800 x 600 @ 56-75 Hz 832 x 624 @ 75 Hz 1024 x 768 @ 60-75 Hz 1152 x 864 @ 75 Hz 1152 x 870 @ 75 Hz 1280 x 720 @ 60 Hz 1280 x 768 @ 60 Hz 1280 x 960 @ 60/75/85 Hz 1280 x 1024 @ 60-75 Hz 1360 x 768 @ 60 Hz 1440 x 900 @ 60 Hz 1440 x 1050 @ 60 Hz 1680 x 1050 @ 60 Hz 1600 x 1200 @ 60 Hz 1920 x 1200 @ 60 Hz
Native Resolution	1280 x 1024 @ 60 Hz	1280 x 1024 @ 60 Hz	1680 x 1050 @ 60 Hz	1680 x 1050 @ 60 Hz	1920 x 1080 @ 60 Hz	1920 x 1200 @ 60 Hz	1920 x 1200 @ 60 Hz
Additional Features	Auto brightness (ambient sensor), thin-frame (bezel), integrated speakers, height-adjustable stand (110mm), pivot, tilt, swivel, No Touch Auto Adjust, cable management, AccuColor color control, digital smoothing, digital controls, DDC/CI, NaViSet software, Plug and Play (VESA DDC 2B), VESA DPMS power management, OSD user controls, ISO 9241-307 Class I, Windows 7-certified, Dynamic Video Mode, HDCP, ECO Mode, resettable carbon meter, resettable cost meter, carbon footprint meter, EPEAT Silver, ENERGY STAR 5.0, lead-free, RoHS-compliant, TCO 5.0	Thin-frame (bezel), integrated speakers, height-adjustable stand (110mm), pivot, tilt, swivel, No Touch Auto Adjust, cable management, AccuColor color control, digital smoothing, digital controls, DDC/CI, NaViSet software, Plug and Play (VESA DDC 1/2B), VESA DPMS power management, OSD user controls, ISO 13406-2 Class II, Windows Vista Premium-certified, Dynamic Video Mode, HDCP, ECO Mode, carbon footprint meter, EPEAT Silver	Thin-frame (bezel), wide-screen format, integrated speakers, USB 2.0 hub, height-adjustable stand (110mm), pivot, tilt, swivel, No Touch Auto Adjust, cable management, AccuColor color control, digital smoothing, digital controls, DDC/CI, NaViSet software, Plug and Play (VESA DDC 1/2B), VESA DPMS power management, OSD user controls, ISO 9241-307 Class I, Windows Vista Premium-certified, Dynamic Video Mode, HDCP, 720p, ECO Mode, carbon footprint meter, HDMI-capable with adapter, EPEAT Gold	Auto brightness (ambient sensor), thin-frame (bezel), widescreen format, integrated speakers, USB 2.0 hub, height-adjustable stand (110mm), pivot, tilt, swivel, No Touch Auto Adjust, cable management, AccuColor color control, digital smoothing, digital controls, DDC/CI, NaViSet software, Plug and Play (VESA DDC 1/2B), VESA DPMS power management, OSD user controls, ISO 13406-2 Class II, ECMA-370, Windows 7-certified, Dynamic Video Mode, HDCP, ECO Mode, resettable carbon meter, resettable cost meter, HDMI-capable via DVI adapter, EPEAT Gold, ENERGY STAR 5.0, lead-free, RoHS-compliant, TCO 5.0, carrying handle, vacation switch	LED-backlit, auto brightness (ambient sensor), thin-frame (bezel), widescreen format, integrated speakers, USB 2.0 hub, height-adjustable stand (110mm), pivot, tilt, swivel, off-timer, AccuColor color control, digital smoothing, digital controls, DDC/CI, NaViSet software, Plug and Play (VESA DDC 1/2B), VESA DPMS OSD user controls, ISO 9241-307 Class I, Windows 7-certified, Dynamic Video Mode, HDCP, ECO Mode, resettable cost meter, ENERGY STAR 5.0, lead-free, RoHS-compliant, TCO 5.1, carrying handle	Thin-frame (bezel), wide-screen format, integrated speakers, USB 2.0 hub, height-adjustable stand (110mm), pivot, tilt, swivel, No Touch Auto Adjust, cable management, AccuColor color control, digital smoothing, digital controls, DDC/CI, NaViSet software, Plug and Play (VESA DDC 1/2B), VESA DPMS power management, OSD user controls, ISO 13406-2 Class II, Windows Vista Premium-certified, Dynamic Video Mode, HDCP, 720p and 1080p from DVI-D, ECO Mode, carbon footprint meter, HDMI-capable with adapter, EPEAT Gold	Thin-frame (bezel), wide-screen format, integrated speakers, USB 2.0 hub, height-adjustable stand (110mm), pivot, tilt, swivel, No Touch Auto Adjust, cable management, AccuColor color control, digital smoothing, digital controls, DDC/CI, NaViSet software, Plug and Play (VESA DDC 1/2B), VESA DPMS power management, OSD user controls, ISO 13406-2 Class II, Windows Vista Premium-certified, Dynamic Video Mode, HDCP, 92% color gamut, 720p and 1080p from DVI-D, ECO Mode, carbon footprint meter, HDMI-capable with adapter, EPEAT Gold
Voltage Rating	AC 100-120V / AC 220-240V	AC 100-120V / AC 220-240V	AC 100-120V / AC 220-240V	AC 100-120V / AC 220-240V	AC 100-120V / AC 220-240V	AC 100-120V / AC 220-240V	AC 100-120V / AC 220-240V
Power Consumption (typical)							
On (w/ USB + audio)	26W	39W	59W	23W	37W	71W	99W
Power Savings Mode	< 1W	2W	2W	< 1W	< 1W	< 2W	< 2W
ECO Mode ON (with USB & Audio)	23W	31W	47W	17W	31W	57W	67W
ECO Mode ON (without USB & Audio)	16W	27W	27W	13W	21W	38W	50W
Dimensions (W x H x D)							
Net (with stand)	16.1 x 15.2-19.5 x 8.4 in. / 408 x 386.4-496.4 x 213.9mm	16.1 x 15.1-19.4 x 8.7 in. / 408 x 383.5-493.5 x 220mm	20 x 15-19.4 x 8.7 in. / 507.8 x 382 - 492 x 220mm	20 x 15-19.4 x 8.7 in. / 507.8 x 382 - 492 x 220mm	21.7 x 14.9-19.3 x 8.7 in. / 550.1 x 379.1 - 489.1 x 220mm	22 x 17.3-21.7 x 10.7 in. / 558.6 x 440.5-550.5 x 272.4mm	23.4 x 17.8-22.1 x 10.7 in. / 594.4 x 451-561 x 272.4mm
Net (without stand)	16.1 x 13.3 x 2.6 in. / 408 x 338 x 65mm	16.1 x 13.3 x 2.6 in. / 408 x 338 x 65mm	20 x 13.1 x 2.8 in. / 507.8 x 332.1 x 71.8mm	20 x 13.1 x 2.8 in. / 507.8 x 332.1 x 71.8mm	21.7 x 13 x 2.8 in. / 550.1 x 329 x 71mm	22 x 14.4 x 3.1 in. / 558.6 x 366.2 x 89mm	23.4 x 15.3 x 3.8 in. / 594.2 x 389.8 x 95.6mm
Weight							
Net (with stand)	12.1 lbs. / 5.5 kg	15.4 lbs. / 7 kg	17.4 lbs. / 7.9 kg	15.4 lbs. / 7 kg	16.3 lbs. / 7.4 kg	23.1 lbs. / 10.5 kg	27.1 lbs. / 12.3 kg
Net (without stand)	7.7 lbs. / 3.5 kg	9.7 lbs. / 4.4 kg	11.7 lbs. / 5.3 kg	9.9 lbs. / 4.5 kg	10.8 lbs. / 4.9 kg	14.3 lbs. / 6.5 kg	18.7 lbs. / 8.5 kg
VESA Hole Configuration Specifications	100 x 100mm	100 x 100mm	100 x 100mm	100 x 100mm	100 x 100mm	100 x 100mm	100 x 100mm; 200 x 100mm
Environmental Conditions							
Operating Temperature	5-35°C / 41-95°F	5-35°C / 41-95°F	5-35°C / 41-95°F	5-35°C / 41-95°F	5-35°C / 41-95°F	5-35°C / 41-95°F	5-35°C / 41-95°F
Operating Humidity	20-80%	20-80%	20-80%	20-80%	20-80%	20-80%	20-80%
Operating Altitude	2000m / 6562 ft.	4572m / 15,000 ft.	2000m / 6562 ft.	2000m / 6562 ft.	2000m / 6562 ft.	2000m / 6562 ft.	2000m / 6562 ft.
Storage Temperature	-10-60°C / 14-140°F	-10-60°C / 14-140°F	-10-60°C / 14-140°F	-10-60°C / 14-140°F	-10-60°C / 14-140°F	-10-60°C / 14-140°F	-10-60°C / 14-140°F
Storage Humidity	10-85%	10-85%	10-85%	10-85%	10-85%	10-85%	10-85%
Storage Altitude	12,192m / 40,000 ft.	12,192m / 40,000 ft.	12,192m / 40,000 ft.	12,192m / 40,000 ft.	12,192m / 40,000 ft.	12,192m / 40,000 ft.	12,192m / 40,000 ft.
Limited Warranty	3 years parts and labor, including backlight	3 years parts and labor, including backlight	3 years parts and labor, including backlight	3 years parts and labor, including backlight	3 years parts and labor, including backlight	3 years parts and labor, including backlight	3 years parts and labor, including backlight
Technical Support	M - F (7am - 7pm CST)	M - F (7am - 7pm CST)	M - F (7am - 7pm CST)	M - F (7am - 7pm CST)	M - F (7am - 7pm CST)	M - F (7am - 7pm CST)	M - F (7am - 7pm CST)

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