NEC AccuSync[™] Series

17"-23" flat-panel monitors ideal for small-to-medium-sized business users



High-quality LCD monitors don't necessarily have to be associated with highend price tags. NEC AccuSync Series monitors have set a new standard in value for the flat-panel monitor category, offering you a perfect opportunity to take advantage of the many benefits offered by the latest display technology without having to break your budget. The 17" NEC AccuSync AS171, 19" AS192, and widescreen 19" AS191WM, 22" AS221WM and 23" AS231WM deliver eco-friendly, technology-rich and cost-conscious display solutions to smallto-medium-sized businesses and home office users. The widescreen models increase productivity by expanding your working area to simultaneously view

It's easy to be green. The AccuSync Series is loaded with features that promote environmental consciousness. 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. The AS192 sets the bar for "green" technology by using LED backlighting, which is more energy-efficient. Compared to its predecessor, this model consumes 21% less power overall, weighs 18% less, radiates less heat, uses less packaging, utilizes recycled plastics in its production and is free of hazardous materials such as mercury, halogen and arsenic.

Series Features and Benefits

LED backlight technology provides for industryleading low power consumption and less hazardous materials (AS192)

Energy efficiency is optimized as a result of the display's "green" technology

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 shifts the monitor to a lower power consumption level or automatically powers it down when it is on but not in use

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

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

ENERGY STAR[®] **5.0 and TCO 5.1 qualifications** reduce electrical costs and lowers total cost of ownership

Ambix[®] **dual-input technology** allows for digital/ analog compatibility with upgraded video cards and software as well as connection to two systems

Touch integration-enabling design increases application options (AS191WM, AS221WM & AS231WM

Built-in multimedia speakers provide sound for business applications such as conferencing (AS191WM, AS221WM & AS231WM)

NaViSet[™] software (available via download) offers an expanded and intuitive interface, allowing you to more easily adjust display settings via mouse and keyboard

Rapid Response™ technology delivers virtually uninterrupted, undistorted viewing of high-speed, full-motion video

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



multiple application windows.

Model	AccuSync AS171	AccuSync AS192	AccuSync AS191WM	AccuSync AS221WM	AccuSync AS231WM
Display Viewable Image Size Pixel Pitch Pixels Per Inch Brightness (typical) Contrast Ratio (typical) Viewing Angle (typical) Response Time (typical) Display Colors	17" 0.264mm 96 @ native resolution 250 cd/m ² 1000:1 85°/85°/85° (CR > 10) 5ms More than16.7million	19" 0.294mm 86 @ native resolution 250 cd/m ² 1000:1 75°/85°/80°/80° (CR > 5) 5ms More than16.7million	19" widescreen 0.284mm 90 @ native resolution 250 cd/m ² 1000:1 88°/88°/88° (CR > 5) 5ms More than 16.7million	22" widescreen 0.282mm 90 @ native resolution 250 cd/m² 1000:1 88°/88°/88° (CR > 5) 5ms More than 16.7million	23" widescreen 0.265mm 96 @ native resolution 250 cd/m ² 1000:1 85°/85°/88° /88° (CR > 5) 5ms More than16.7million
Synchronization Range Horizontal Vertical	31.5-81.1 KHz 56 - 76 Hz	31.5-81.1 KHz 56 - 76 Hz	31.5-81.1 KHz 56 - 75 Hz	31.5-82.3 KHz 56 - 75 Hz	31.5-82.3 KHz 56 - 75 Hz
Inputs	VGA, DVI-D	VGA, DVI-D	VGA, DVI-D	VGA, DVI-D	VGA, DVI-D
Resolutions Supported	720 x 400 @ 70 Hz 640 x 480 @ 60-75 Hz 800 x 600 @ 56-75 Hz 822 x 624 @ 75 Hz 1152 x 864 @ 75 Hz 1152 x 870 @ 75 Hz 1280 x 960 @ 60-75 Hz 1280 x 1024 @ 60-75 Hz	720 x 400 @ 70 Hz 640 x 480 @ 60-75 Hz 800 x 600 @ 56-75 Hz 1024 x 768 @ 60-75 Hz 1152 x 864 @ 75 Hz 1152 x 864 @ 75 Hz 1280 x 960 @ 60-75 Hz 1280 x 1024 @ 60-75 Hz	720 x 350 @ 70 Hz 720 x 400 @ 70 Hz 640 x 480 @ 60-75 Hz 800 x 600 @ 56-75 Hz 1024 x 768 @ 60-75 Hz 1024 x 768 @ 75 Hz 1152 x 864 @ 75 Hz 1280 x 720 @ 60 Hz 1280 x 720 @ 60 Hz 1280 x 960 @ 60 Hz 1280 x 960 @ 60 Hz 1280 x 768 @ 60 Hz 1280 x 768 @ 60 Hz 1280 x 768 @ 60 Hz 1360 x 768 @ 60 Hz 1360 x 768 @ 60 Hz 1440 x 900 @ 60-75 Hz	$\begin{array}{c} 720 \times 350 @ 70 \ \text{Hz} \\ 720 \times 400 @ 70 \ \text{Hz} \\ 640 \times 480 @ 60.75 \ \text{Hz} \\ 640 \times 480 @ 66 \ \text{Hz} \\ 800 \times 600 @ 56.75 \ \text{Hz} \\ 1024 \times 768 @ 60.75 \ \text{Hz} \\ 1024 \times 768 @ 75 \ \text{Hz} \\ 1152 \times 864 @ 75 \ \text{Hz} \\ 1152 \times 864 @ 75 \ \text{Hz} \\ 1280 \times 760 @ 60 \ \text{Hz} \\ 1280 \times 768 @ 60.75 \ \text{Hz} \\ 1280 \times 960 @ 60 \ \text{Hz} \\ 1280 \times 960 @ 60 \ \text{Hz} \\ 1280 \times 768 @ 60.75 \ \text{Hz} \\ 1280 \times 760 @ 60.75 \ \text{Hz} \\ 1280 \times 760 @ 60 \ \text{Hz} \\ 1400 \times 1050 @ 60.75 \ \text{Hz} \\ 1400 \times 1050 @ 60 \ \text{Hz} \\ 1600 \ \text$	$\begin{array}{c} 720 \times 350 @ 70 \ \text{Hz} \\ 720 \times 400 @ 70 \ \text{Hz} \\ 640 \times 480 @ 60.75 \ \text{Hz} \\ 640 \times 480 @ 66 \ \text{Hz} \\ 800 \times 600 @ 56.75 \ \text{Hz} \\ 822 \times 600 @ 56.75 \ \text{Hz} \\ 1024 \times 768 @ 60.75 \ \text{Hz} \\ 1024 \times 768 @ 60.75 \ \text{Hz} \\ 1152 \times 870 @ 75 \ \text{Hz} \\ 1152 \times 870 @ 75 \ \text{Hz} \\ 1280 \times 720 @ 60 \ \text{Hz} \\ 1280 \times 720 @ 60 \ \text{Hz} \\ 1280 \times 768 @ 60.75 \ \text{Hz} \\ 1280 \times 700 @ 60 \ \text{Hz} \\ 1280 \times 960 @ 65 \ \text{Hz} \\ 1400 \times 1050 @ 60.75 \ \text{Hz} \\ 1400 \times 1050 @ 60 \ \text{Hz} \\ 1920 \times 1080 @ 60 \ \text{Hz} \\ 1920 \times 1080 @ 60 \ \text{Hz} \\ 1920 \times 1080 @ 60 \ \text{Hz} \\ \end{array}$
Native Resolution	1280 x 1024	1280 x 1024	1440 x 900	1680 x 1050	1920 x 1080
Additional Features	Tilt, push-button release stand, 2-step ECO Mode (ECO Mode 1&2), carbon footprint meter, cable management, SRGB, digital smoothing, 5-preset AccuColar control, No Touch Auto Adjust, DDC/CI, NoViSet software, Plug and Play (VESA DDC 1/2B), VESA DPMS power management, VESA mount, OSD user control	Tilt, one-touch ECO Mode key, carbon footprint meter, cable management, sRGB, digital smoothing, S-preset AccuColor control, No Touch Auto Adjust, DDC/CI, NaViSet software, Plug and Play (VESA DDC 1/2B), VESA DPMS power manage- ment, VESA mount, OSD user control	Tilt, 2-step ECO Mode (ECO Mode 1&2), carbon footprint meter, cable management, DVI- D with HDCP, sRGB, digital smoothing, 5-preset AccuColor control, No Touch Auto Adjust, DDC/CI, NaViSet software, Plug and Play (VESA DDC 1/2B), VESA DPMS power manage- ment, VESA mount, OSD user control	Tilt, 2-step ECO Mode (ECO Mode 1&2), carbon footprint meter, cable management, DVI-D with HDCP, sRGB, digital smoothing, 5-preset AccuColor control, No Touch Auto Adjust, DDC/CI, NaViSet software, Plug and Play (VESA DDC 1/2B), VESA DPMS power manage- ment, VESA mount, OSD user control	Tilt, 2-step ECO Mode (ECO Mode 1&2), touch-integratable, carbon footprint meter, cable management, DVI-D with HDCP, sRGB, digital smooth- ing, 5-preset AccuColor control, No Touch Auto Adjust, DDC/ CI, NoViSet software, Plug and Play (VESA DDC 1/2B), VESA DPMS power management, VESA mount, OSD user control
Regulatories and Compliance	UL /C-UL or CSA, PCT (Gost), C-tick, FCC Class B/Canadian DOC, MPR II / MPR III, PSB, NOM, Windows Vista, TUV GS, TUV Ergonomie, CE, GEEA/ Energy Iabel, SASO, ISO 9241- 307, Pb free, RoHS, EPEAT Silver, ENERGY STAR 5.0 and TCO 5.0 compliant, Windows 7	UL /C-UL or CSA, PCT (Gost), C-tick, FCC Class B/Canadian DOC, MPR II / MPR III, PSB, NOM, Windows Vista, TUV GS, TUV Ergonomie, CE, GEEA/ Energy Idebl, SASO, ISO 9241- 307, Pb free, RoHS, EPEAT Silver, ENERGY STAR 5.0 and TCO 5.1 compliant, Windows 7	UL /C-UL or CSA, PCT (Gost), C-tick, SB-50 (California), FCC Class B/Canadian DOC, MPR II / MPR III, PSB, NOM, Windows Vista, TUV GS, TUV Ergono- mie, CE, GEEA/Energy label, SASO, ISO 9241-307, Pb free, RoHS, EPEAT Silver, ENERGY STAR 5.0 and TCO 5.0 compli- ant, Windows 7	UL /C.UL or CSA, PCT (Gost), C-tick, SB-50 (California), FCC Class B/Canadian DOC, MPR II / MPR III, PSB, NOM, Windows Vista, TUV GS, TUV Ergono- mie, CE, GEEA/Energy label, SASO, ISO 9241-307, Pb free, RoHS, EPEAT Silver, ENERGY STAR 5.0 and TCO 5.0 compli- ant, Windows 7	UL /C-UL or CSA, PCT (Gost), C-tick, SB-50 (California), FCC Class B/Canadian DOC, MPR II / MPR III, PSB, NOM, Windows Vista, TUV GS, TUV Ergono- mie, CE, GEA/Energy label, SASO, ISO 9241-307, Pb free, RoHS, EPEAT Silver, ENERGY STAR 5.0 and TCO 5.0 compli- ant, Windows 7
Touch-Capable	No	No	Yes	Yes	Yes
Voltage Rating	AC100-120V / AC 220-240V	AC100-120V / AC 220-240V	AC100-120V / AC 220-240V	AC100-120V / AC 220-240V	AC100-120V / AC 220-240V
Power Consumption (typical) On ECO Mode 1/2 Power Savings Mode	21W 18W / 14W 0.40W	19W TBD 0.15W	21W 18W / 15W 0.4W	24W 21W / 17W 0.42W	25W 22W / 18W 0.42W
Dimensions (W x H x D) Net (with stand) Net (without stand)	14.7 x 14.7 x 8.1 in./ 373.2 x 373.1 x 205.1mm 14.7 x 12.2 x 2.5 in./ 373.2 x 310.2 x 69mm	16.2 x 15.9 x 8.1 in. / 412.5 x 403.1 x 205.1mm 16.2 x 13.4 x 2.7 in. / 412.5 x 341.2 x 69mm	17.3 x 13.7 x 8.3 in. / 439.4 x 347.1 x 209.8mm 17.3 x 11.8 x 2.5 in. / 439.4 x 299.8 x 64.6mm	19.9 x 15.4 x 8.7 in. / 505.2 x 390.9 x 221.8mm 19.9 x 13.5 x 2.6 in. / 505.2 x 342.9 x 65.2mm	21.5 x 14.9 x 8.7 in. / 546 x 378.6 x 221.8mm 21.5 x 13.1 x 2.6 in. / 546 x 334 x 65.2mm
Weight Net (with stand) Net (without stand)	8.6 lbs. / 3.9 kg 7.7 lbs. / 3.5 kg	7.5 lbs. / 3.4 kg 6.6 lbs. / 3 kg	9.7 lbs. / 4.4 kg 9 lbs. / 4.1 kg	11 lbs. / 5 kg 10.4 lbs. / 4.7 kg	11.9 lbs. / 5.4 kg 11 lbs. / 5 kg
VESA Hole Configuration Specifications	100 ×100mm	100 x100mm	100 x100mm	100 x100mm	100 x100mm
Environmental Conditions Operating Temperature Operating Humidity Operating Altitude Storage Temperature Storage Humidity Storage Altitude	5-35°C / 41-95°F 20-80% 2000m / 6562 ft. -10-60°C / 14-140°F 10-85% 12,192m / 40,000ft	5-35°C / 41-95°F 20-80% 2000m / 6562 ft. -10-60°C / 14-140°F 10-85% 12,192m / 40,000ft	5-35°C / 41-95°F 20-80% 2000m / 6562 ft. -10-60°C / 14-140°F 10-85% 12,192m / 40,000 ft.	5-35°C / 41-95°F 20-80% 2000m / 6562 ft. -10-60°C / 14-140°F 10-85% 12,192m / 40,000 ft.	5-35°C / 41-95°F 20-80% 2000m / 6562 ft. -10-60°C / 14-140°F 10-85% 12,192m / 40,000 ft.
Limited Warranty	3 year parts and labor, includ- ing backlight	3 year parts and labor, includ- ing backlight	3 year parts and labor, includ- ing backlight	3 year parts and labor, includ- ing backlight	3 year parts and labor, includ- ing 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)



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