

NEC MultiSync LCD Displays

Touch Screen Solutions



Innovation at
your fingertips

Capture more instant viewer participation with the NEC range of interactive touch solutions

NEC offers a range of fully integrated touch screen solutions for all of your interactive signage needs. The NEC range includes the 24-inch EA241WM-BK-DST, 32-inch V321-DST, 40-inch P402-DST and the 46-inch P462-DST.

What is large format touch screen?

A touchscreen is an LCD display that has been fitted with an overlay that can detect the presence and location of a touch within the display area. The screens are sensitive to pressure; a user interacts by touching pictures or words on the screen. The touchscreen enables one to interact directly with what is displayed, rather than indirectly with a pointer controlled by a mouse or touchpad. They play a prominent role in the design of digital signage solutions and relevant software and viewing content.

Suggested Applications

- Check-in kiosks - airports, bus terminals
 - Hotel reservations
 - Registration - expos, trade shows etc
 - Way finding - shopping centres, museums, galleries etc
 - Product selection - in-store retail displays
 - Transportation
 - Education
 - Retail
 - Travel information
 - Gaming
 - Healthcare
- Plus many more...

3M Surface Capacity Technology (SCT)

The EA241WM-BK-DST utilises 3M MicroTouch™ Surface Capacity Technology (SCT), offering a high-endurance solution that is unaffected by on-screen contaminants such as chemicals, grease, dirt, and water. This makes it ideal for touch applications where exceptional performance, vibrant optics and environmental robustness is required, 24-hours a day, 7 days a week. As an all-glass design, the SCT touch system offers superior light transmission and with the combination of the 3M™ scratch resistant top coat, the SCT system offers superior surface durability compared to typical resistive and surface capacitive solutions.

- High light transmission provides superior display performance
- Superior surface durability maintains optical and functional performance
- Low surface energy resists surface scratching
- Smooth surface for better drag and draw performance
- Durable finish for easy-to-clean surface

EA241WM-BK-DST



Why Touch?

There is no better way to capture visitors or passer-by's attention and involvement than to offer them a true opportunity to engage in a live info-exchange with businesses. Providing touch technology can deliver increased revenues via instant viewer participation, a better customer experience with intuitive interaction and an real opportunity to reduce operating and personnel costs.

The NEC Advantage

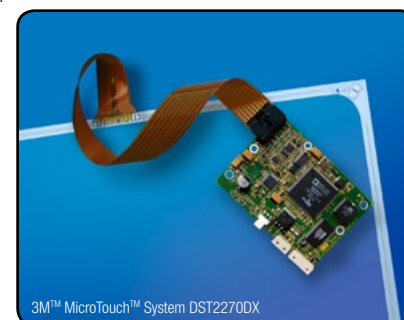
The added interactivity of touch enabled screens differentiates you from your competition. The NEC range of fully integrated LCD touch screen solutions provide the most flexible, intuitive and sophisticated touch options by combining 3M's SCT (Surface Capacity Technology) and DST (Dispersive Signal Technology) touch systems with specific NEC MultiSync LCD desktop and large format public displays, selected for their design, stability, eco-friendly features and advanced functionality. Available in 24, 32, 40 and 46-inch screen sizes, these touch screen solutions are designed to take your digital signage to the next level of engagement with

audiences...

Note: Many more of NEC's desktop, large format LCD's and projectors are also touch capable. Look for this feature in the detailed specifications of related products.



P401-DST / P461-DST



3M™ MicroTouch™ System DST2270DX

The NEC Solution

EA241WM-BK-DST 24-inch Widescreen LCD Touch Screen

The 24" NEC MultiSync EA241WM-BK-DST, combines cutting-edge technologies with environmentally-friendly features to meet the diverse needs of interactive signage applications.

- ECO Mode™ function helps save power, reduce heat and extend the life of the display by allowing you to dim the backlight
- Dynamic Visual Mode enhances video and images with realtime optimization of brightness, colour and contrast
- Carbon footprint meter helps track and calculate the reduction of green gas emissions

P402-DST 40-inch Widescreen LCD Touch Screen

The 40" NEC P402-DST offers industrial-strength, 24/7 operation for the most demanding digital signage installations.

- Industrial-strength, premium-grade panel with additional thermal protection, internal temperature sensors with self-diagnostics and fan-based technology, allows for 24/7 operation
- Open Pluggable Specification is the industry's first standardised option slot that simplifies digital signage installations
- Built-in expansion slot allows for seamless integration of NEC/third-party components, as well as future OPS-based products
- Expanded connectivity with digital loop-through
- Full 1080p high-definition resolution provides stunning detail
- Improved mechanical design with slimmer depth
- TileMatrix allows you to create video walls up to 10 x 10

Dispersive Signal Technology (DST)

The V321-DST, P402-DST & P462-DST utilise the MicroTouch™ DST Touch System. DST consists of the anti-glare properties of a chemically-strengthened glass substrate with piezos mounted on each corner, mated to a sophisticated, dedicated controller. The DST Touch System determines the touch position by pinpointing the source of "bending waves" created by finger or stylus contact within the glass substrate. This process helps eliminate traditional performance issues related to on-screen contaminants and surface damage, and provides fast, accurate touch attributes.

- Fast, accurate, repeatable touch
- Touch unaffected by surface contaminants, such as dirt, dust and grime
- Excellent light transmission provides vibrant optical characteristics with anti-glare properties
- Operation unaffected by surface damage
- Input flexibility from finger or stylus, such as pencil, credit card, fingernail, or almost any pointing stylus



NEC Touch Screen Solutions

V321-DST 32-inch Widescreen LCD Touch Screen

Go digital with the 32" NEC V321-DST, value series, large-screen LCD touch screen solution - a cost-conscious solution for interactive digital signage applications.

- Wide range of inputs, including DVI, VGA, shared 5-BNC, S-Video and HDMI
- TileMatrix™ allows you to create video walls up to 5x5
- High brightness (450 cd/m2 brightness) and contrast ratio (3000:1) help create eye-catching images and crisp, easy-to-read text
- Text ticker creates a dedicated portion of the screen for applications such as news updates and emergency warnings.

P462-DST 46-inch Widescreen LCD Touch Screen

The 46" NEC P462-DST is a professional-grade, large-screen touch screen solution offering advanced connectivity and the most advanced control and communication options available, to monitor your network from a remote location.

- Industrial-strength, premium-grade panel with additional thermal protection, internal temperature sensors with self-diagnostics and fan-based technology, allows for 24/7 operation
- Open Pluggable Specification is the industry's first standardized option slot that simplifies digital signage installations
- Built-in expansion slot allows for seamless integration of NEC/third-party components, as well as future OPS-based products
- Expanded connectivity with digital loop-through
- Full 1080p high-definition resolution provides stunning detail
- TileMatrix allows you to create video walls up to 10 x 10

Detailed Specifications

	V321-DST	P402-DST	P462-DST
Panel Technology	SPVA (TV+)	SPVA (P-DID)	SPVA (P-DID)
Brightness (typical) (cd/m2)	450	500	500
Contrast Ratio (typical)	3000:1	3000:1	3500:1
Response Time (Gray-Gray) (ms)	8	8	8
Native Resolution	1366 x 768	1920 x 1080	1920 x 1080
Refresh Rate	60Hz	60Hz	60Hz
Aspect Ratio	16:9	16:9	16:9
Input Terminals Digital	HDMI, DVI-D	DisplayPort, HDMI, DVI-D	DisplayPort, HDMI, DVI-D
Output Terminals Digital	-	DisplayPort, DVI-D	DisplayPort, DVI-D
Input Terminals Analog	VGA 15-pin D-sub, 5 BNC (RGBHV, DVD/HD or Video), BNC Composite, S-Video	VGA 15-pin D-sub, 5 BNC (RGBHV, DVD/HD or Video), S-Video, BNC Composite	VGA 15-pin D-sub, 5 BNC (RGBHV, DVD/HD or Video), S-Video, BNC Composite
Output Terminals Analog	VGA 15-pin D-sub, BNC Composite	BNC Composite	BNC Composite
Input Terminals Audio	RCA Audio (2), Stereo Mini-Jack	RCA Audio, Stereo Mini-Jack (2), HDMI Audio, DisplayPort Audio	RCA Audio, Stereo Mini-Jack (2), HDMI Audio, DisplayPort Audio
Output Terminals Audio	RCA Audio, External Speaker Jack (2)	Stereo Mini-Jack, External Spkr Jack (2)	Stereo Mini-Jack, External Spkr Jack (2)
Input Terminals External Control	RS-232C, IR Remote, DDC/CI	RS-232C, LAN, IR Remote, DDC/CI	RS-232C, LAN, IR Remote, DDC/CI
Output Terminals External Control	RS-232C	RS-232C, IR Remote	RS-232C, IR Remote
Power Consumption (typical) On (W)	75	145	155
Bezel Width (Left/Right, Top/Bottom)	43mm/43mm, 41mm/41mm	15.5mm/15.5mm, 15.5mm/15.5mm	16.5mm/16.5mm, 16.5mm/16.5mm
Dimensions (WxHxD) (w/out stand)	789 x 476.3 x 133mm	919.7 x 532.2 x 103mm	1055.4 x 608.6 x 103.0mm
Weight Net (w/out stand)	14.3 kg	20.8 kg	23.8 kg
VESA Hole Configuration	400 X 200mm (12-hole)	300 x 300mm (4-hole)	300 x 300mm (4-hole)

EA241W-BK-DST

Panel Technology	TN
Viewable Image Size (")	24
Aspect Ratio	16:10
Native Resolution	1920 x 1200
Brightness (typical) (cd/m2)	400
Contrast Ratio (typical)	1000:1
Viewing Angle (typical)	160o Vert, 160o Hor. (80U/80D/80L/80R) @ CR>5C
Response Time (Gray-Gray) (ms)	5
Pixel Pitch (mm)	0.27
Backlight Type	CCFL
Input Connectors	DVI-D, VGA 15-pin D-sub
Power Consumption (typical) On (W)	52
Dimensions (WxHxD) (with stand)	558.6 x 437-547 x 272mm
Dimensions (WxHxD) (w/out stand)	558.6 x 366.2 x 89mm
Weight Net (with stand)	10.5kg
Weight Net (w/out stand)	6.5kg



For more information, visit www.nec.com.au, email displays@nec.com.au or call 131 632

About NEC Australia Pty Ltd. NEC Australia is a leading supplier and integrator of ICT solutions to carriers, government and businesses. With over 800 staff and 200 partners, we research, develop and deploy advanced IT/Network communication solutions and services using best-of-breed technologies in multi-vendor environments. Our business encompasses Hosted Application and Network Services, Systems Integration, IP Communications Servers, PBX, Broadband Access Systems, Data Centre and Cloud Technology Services along with Digital Signage and Data Technology products.

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