

Product Information Sheet

M551-SST (ShadowSense™)

LCD 55" Large Format ShadowSense™ Touch Display



The Team Mate for Self-Service Kiosks and POS Applications

For users of self-service kiosks, an effective user experience is essential in order to maintain customer satisfaction and loyalty. An intuitive and user friendly touch behaviour is crucial to eliminate frustration and allow the user to concentrate on the buying process and not on the technology.

The 55" M551-SST 10-point touch display intelligently ignores accidental touches yet provides accurate and reliable touch performance even when in high ambient light to facilitate an eye-pleasing touch experience. The Open Modular Intelligence (OMI) approach provides tailor-made Interactive Solutions, where scalable computing power such as Raspberry Pi compute modules or SDM Slot-in PCs are seamlessly embedded into the display.

For interactive way finding signage, the M551-SST multi-touch display perfectly serves your end customers whilst increasing your ROI and securing your investment into a brighter future.

Benefits

- **ShadowSense Touch Technology** – market-leading touch performance for speed and accuracy, that is immune to ambient light and provides advanced features such as object size and shape recognition, palm rejection, touch size and speed control, hover distance control, and liquid rejection on the touch surface.
- **Avoid Touch Frustration** – satisfy users with the highest touch point accuracy, filtering out misleading touch-sizes and avoiding ghost touches even in high ambient light operation.
- **Seamless Touch Integration** – work hand-in-hand with multi-touch applications while using the 10 touch points of ShadowSense™ touch technology in real-time collaboration.
- **Simple Plug & Play** – no need to install any drivers on the host PC for all major operating systems.
- **Future Ready with Open Modular Intelligence Expansion** – upgrade the power of your display at any time by seamlessly integrating one of NEC's options for SDM Slot-in PCs, Raspberry Pi compute modules or signal interfaces for content feed and computing.
- **Mission-critical 24/7 ready operation** – the meticulous selection of industrial-grade components and careful design focused on demanding usage scenarios accompany an impressive and continuous viewer experience.

Product Information

Product Name	M551-SST
Product Group	LCD 55" Large Format ShadowSense™ Touch Display
Order Code	M551-SST

Display

Panel Technology	IPS with Edge LED backlights
Screen Size [inch/cm]	55 / 138.8
Aspect Ratio	16:9
Brightness [cd/m ²]	500
Contrast Ratio (typ.)	≥ 8000:1 1
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Response Time (typ.) [ms]	8
Haze Level [%]	Pro (28)
Supported Orientation	Landscape; Portrait

Synchronisation Rate

Horizontal Frequency [kHz]	26 - 91.1
Vertical Frequency [Hz]	23 - 86

Resolution

Native Resolution	3840 x 2160
Supported Resolutions	4096 x 2160; 1900 x 1200; 3840 x 2160; 1650 x 1050; 1920 x 2160; 1600 x 1200; 1920 x 1080; 1440 x 900;

Connectivity

Input Video Digital	1 x DisplayPort (with HDCP); 2 x HDMI (with HDCP)
Input Audio Digital	1 x DisplayPort; 2 x HDMI
Input Control	LAN 100Mbit; remote control wire (3,5mm jack); RS232
Output Audio Analogue	1 x 3.5mm jack
Input Detect	Custom; First; Last

Open Modular Intelligence

Intel® SDM	accepts Intel® Smart Display Modules Large and Small up to 66 W
Compute Module Slot	RPi4 Compute Module

Sensors

Ambient Light Sensor	Integrated, triggered actions programmable
Temperature Sensor	Integrated, 3 sensors, triggered actions programmable

Electrical

Power Consumption [W]	80 shipping
Power Savings Mode [W]	< 0.5; < 2 (Networked Standby)
Power Management	VESA DPMS
Power Supply	100-240 V AC; 50/60 Hz; internal

Environmental Conditions

Operating Temperature [°C]	+0 to +40
Operating Humidity [%]	20 to 80
Storage Humidity [%]	10 to 90
Storage Temperature [°C]	-20 to 60

Mechanical

Dimensions (W x H x D) [mm]	1,312 x 770 x 77
Weight [kg]	47.5
Bezel Width [mm]	32.0 (left and right); 32.0 (top and bottom)
VESA Mounting [mm]	300 x 300 (FDMI); 4 holes; M6
Ingress Protection	IP5x (front); IP2x (back)

Touch

Touch Technology	ShadowSense™ Touch
Number of Touches	Real multi-touch up to 10 touches
Response Time [ms]	6 to 8
Touch Method	Gloves; Stylus (≥ 6 mm)
Supported Operating System	Native Multi-Touch: Windows 7, Windows 8, Windows 10, Linux, Android; Default Mouse: Windows XP, Windows Vista, Mac OS X
Data Interface	USB-HID
Accuracy [mm]	< 1.5
Touch Resolution	12-bit (4096 x 4096)
Ambient Light Rejection	Up to full sunlight (approx. 100000 lux)

Green Features

Energy Efficiency	Annual energy consumption: 131 kWh (based on 4 operating hours per day); Energy efficiency class: G; LED backlight
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Additional Features

Safety and Ergonomics	Energy Star 8.0; RCM
Pixel Failure Class	ISO 9241-307, Class 1
Audio	Integrated Speakers (10 W + 10 W)
Shipping Content	Display; HDMI Cable; Power Cable; Remote Control; User Manual
Operating Hours	24/7
External Control	AMX NetLinX Support; ASCII Control Commands; HDMI CEC; HTTP Browser; PJLink; Scheduled Timer; SNMP
Remote Management	Automated Email Alerts; NEC NaViSet Administrator 2
Security	Disable HW Buttons; Disable IR Functionality; Emergency Notification

¹ out of the box conditions, local dimming ON

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