\Orchestrating a brighter world

MultiSync® P554 SST (ShadowSense)

LCD 55" Professional Large Format Touch Display

Datasheet





Your Teammate 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" MultiSync ® P554 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 OPS Slot-in PCs are seamlessly embedded into the display.

For interactive way finding signage, the MultiSync ® P554 SST multi-touch display perfectly serves your end customers whilst increasing your ROI and securing your investment into a brighter future.

Benefits

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.

Resistive and Endurance Design – the protection glass resists vandalism and provides 24/7 customer usage.

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 – easy set-up without the need to install any drivers on the host PC for all major operating systems.

Superb readability in bright light environments – crisp playback of content thanks to high brightness output of 700 cd/m² and anti-reflective screen surface delivers clearly visible messages even under varying and demanding ambient conditions.

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 OPS Slot-in PCs, Raspberry Pi compute modules or signal interfaces for content feed and computing.

Cost Saving Device Management – save effort whilst managing all connected NEC devices from a centralised location by using the NaViSet Administrator 2 software tool.

Product Information

Product Name	MultiSync® P554 SST (ShadowSense)
Product Group	LCD 55" Professional Large Format Touch Display
Order Code	60004258

Display

Panel Technology	S-IPS with Edge LED backlights
Active Screen Area (W x H) [mm]	1,209.6 x 680.4
Screen Size [inch/cm]	55 / 138.8
Brightness [cd/m²]	700, 500 Eco (shipment setting)
Contrast Ratio (typ.)	1200:1
Viewing Angle [°]	178 / 178 (at contrast ratio > 10:1)
Colour Depth [bn]	1.073 (10bit)
Response Time (typ.) [ms]	8 (grey-to-grey)
Haze Level [%]	Pro (44)
Supported Orientation	Face Up; Landscape; Portrait

Synchronisation Rate

Horizontal Frequency [kHz]	31.5 - 91.1 (analog and digital)
Vertical Frequency [Hz]	24 - 85

Resolution

Native Resolution	1920 x 1080
Supported Resolutions	4096 x 2160; 3840 x 2160; 1920 x 2160; 1920 x 1200; 1920 x 1080; 1680 x 1050; 1600 x 1200; 1440 x 900; 1400 x 1050; 1366 x 768; 1360 x 768; 1280 x 1024; 1280 x 960; 1280 x 800; 1280 x 720; 1024 x 768; 800 x 600; 640 x 480

Connectivity

Input Video Analogue	1 x VGA
Input Video Digital	1 x DVI-D (with HDCP); 2 x DisplayPort (with HDCP); 2 x HDMI (with HDCP)
Input Audio Analogue	2 x 3,5 mm jack
Input Audio Digital	2 x DisplayPort; 2 x HDMI
Input Control	1 x LAN 100Mbit; 1 x Remote Control (3.5 mm jack); 1 x RS232
Input Data	1 x microSD (MediaPlayer); 1 x USB 2.0 (MediaPlayer); 1 x USB 2.0 (Service); 1 x USB Type-B (Upstream); 2 x USB 2.0 (Compute Module, 1 x 5V/2A powered)
Output Video Digital	1 x DisplayPort (loop through: DisplayPort, OPS slot-in PC)
Output Audio Analogue	1 x 3,5 mm jack
Output Control	1 x LAN 100Mbit

Open Modular Intelligence

OPS Slot	Slot Technology: Open pluggable specification (NEC / Intel OPS standard)
OPS Max. Current / Power Consumption [A / W]	10 / 61
Compute Module Slot	Slot Technology: Compute Module Slot (NEC proprietary standard)

Sensors

Ambient Light Sensor	Integrated, triggered actions programmable
Human Sensor	Optional, external, 4-5m range, triggered actions programmable
Temperature Sensor	Integrated, 3 sensors, triggered actions programmable

NFC Sensor	Integrated, 2cm range, free NEC Android App required

Electrical

Power Consumption [W]	130 Eco (shipment setting), 175
Power Savings Mode [W]	< 0.5 (ECO Standby); < 3 (Networked Standby)
Power Management	VESA DPMS

Environmental Conditions

Operating Temperature [°C]	+0 to +35
Operating Humidity [%]	20 to 80

Mechanical

Dimensions (W x H x D) [mm]	1,282.5 x 757.5 x 82.8
Weight [kg]	45
Bezel Width [mm]	33.6 (top and bottom); 33.7 (left and right)
VESA Mounting [mm]	300 x 300 (FDMI); 4 holes; M6
Ingress Protection	IP5X (front); IP2X (back)

Glass

Thickness [mm]	3
Type	Premium toughened glass, anti-glare coating
Light Transmission [%]	92 (+/- 2 %)

Touch

Touch Technology	ShadowSense™ Touch
Number of Touches	Real multi-touch up to 10 touches
Response Time [ms]	6 to 8
Touch Method	Finger; Gloves; Stylus (≥ 4 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	8-bit (4096 x 4096)
Ambient Light Rejection	Up to full sunlight (approx. 0 lux)

Additional Features

Special Characteristics	Ambient Light Sensor; AMX NetLinx Support; ASCII Control Commands; Auto ID assignment; Auto tiling function; Automated Email Alert; CEC Support; Crestron RoomView Support; DICOM support; Display Browser Control; Emergency Notification; Full System Scheduler; Hardware colour calibration possible; Image flip; Intelligent Wireless Data (based on NFC); KeyGuide; MediaPlayer with Browser Control; NaViSet Administrator 2; OmniColor Control; OSD rotation for portrait mode; PJLink Support; Point Zoom Function; Powered USB-Port; Programmable 12-bit LUT with 3 memory banks; Removable Logo; Secure Mode Operation; Slim LED Indicator; SNMP Support; TileMatrix (10 x 10); User readable log function; Various picture in picture options
Colour Versions	Black Front Bezel, Black Back Cabinet; optional coloured overframes
Safety and Ergonomics	CE; EMC Class B; RoHS
Audio	Integrated Speakers (10 W + 10 W); Optional Speakers (15 W + 15 W)
Shipping Content	CD-ROM (User Guides/Manuals); Display; DVI-D cable; Power Cable; Remote Control; USB cable; User Manual
Warranty	3 years warranty incl. backlight; additional services available; optional 4. + 5. year warranty extension
Operating Hours	24/7

Available Options

Accessories	Feet (ST-401); Speaker (SP-TF1); Trolley (PDMHM-L, P02MHA, PD03MHA); Wall mount (PD02WHM, PDW S 32-55 L and P, PD02W T L L, PD03W T M P)
Compute Module Slot	NEC Compute Module; Raspberry Pi Compute Module 1 and 3
OPS Slot	HD-SDI 1.5G, 3G; HDBaseT receiver; Intel® Atom, Celeron and Core CPUs; OPS-2C HDMI + DP Interface; OPS-2C Quad 3G SDI

MediaPlayer

Supported Image Formats	JPG (baseline, progressive, RGB, CMYK); max. resolution 5000 x 5000; PNG (interlace, alpha channel); max. resolution 4000 x 4000
Supported Video Formats	MP4 / MOV / FLV (video H.264, audio MP3, AAC); max. resolution 1080p at 30 Hz, 1080i at 60 Hz; MPG (video mpeg1/2, audio mpeg audio layer2/3, AAC-LC); MP @ ML, MP @ HL; WMV (video H.264, wmv advanced L3, wmv simple / main, audio mp3 wmv std); max. resolution 1080p at 30 Hz, 1080i at 60 Hz
Supported Audio Formats	MP3 (MP3); max. bit-rate 320 kBit/s; WAV (LPCM); max. 48 kHz sampling
Supported File Storage / File System	MicroSDHC / FAT16, FAT32; USB 2.0 / FAT16, FAT32

Green Features

Energy Efficiency	Ambient light sensor; Annual energy consumption: 190 kWh (based on 4 operating hours per day); Carbon savings meter; ECOMode; Energy efficiency class: C; Human Sensor
Ecological Materials	Manuals on CD; Optional feet

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