

Product Information Sheet

P654Q-SST (ShadowSense™) LCD 65" Large Format ShadowSense™ Touch Display



Give your meeting room a bright new touch

Enhance your meeting and conferencing performance with stunning UHD resolution. Get high-end quality and reliability at a low total cost of ownership, with long life-times.

The ShadowSense™ Technology gives you the freedom to throw open the blinds and let the daylight enrich your meeting – even in direct sunlight the precise touch interface functions perfectly without ghost touches. Meanwhile, the anti-glare coating minimizes disturbing reflections and helps to eliminate annoying fingerprints on the touch surface. The design of the touch frame brings a modern styling to ShadowSense™ Touchscreens, whilst the precision pen the user an even better writing experience. Add the Mosaic Canvas software for whiteboarding and sketching capability to deliver the perfect interactive meeting solution. When adding an OPS Slot-in PC, an NEC Soundbar and Huddly Go wide screen camera, your collaborative meeting solution is ready to boost creativity and efficiency in your meeting rooms.

All NEC SST touch displays come with an NEC SST Pen and Eraser Kit.

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 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	P654Q-SST (ShadowSense Touch)
Product Group	LCD 65" Commercial Large Format Touch Display
Order Code	P654Q-SST

Display

Panel Technology	S-IPS with Edge LED backlights
Active Screen Area (W x H) [mm]	1,429 x 804
Screen Size [inch/cm]	65 / 165.1
Brightness [cd/m²]	490/700
Contrast Ratio (typ.)	4000:1
Viewing Angle [°]	178° Vert., 178° Hor. at CR>10
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]	15.625/15.734, 31.5 - 91.1
Vertical Frequency [Hz]	50.0 - 85.0 (Analog Input) / 24.0 - 85.0 (Digital Input)

Resolution

Native Resolution	3840 x 2160
Supported Resolutions on HDMI	4096 x 2160 at 24Hz; 3840 x 2160 at 60/30/25/24Hz; 1920 x 1080 at 60 Hz; 1080p, 1080i, 720p at 60/50Hz; 576p at 50Hz; 576i at 50Hz; 480p at 60Hz; 480i at 60Hz

Connectivity

Input Video Analogue	NONE
Input Video Digital	2 x DisplayPort (with HDCP); 3 x HDMI (with HDCP)
Input Audio Analogue	1 x 3.5mm 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

Electrical

Power Consumption [W]	230 Eco (shipment setting)
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
Storage Humidity [%]	10 to 90
Storage Temperature [°C]	-20 to +50

Mechanical

Dimensions (W x H x D) [mm]	1510 x 890 x 101
Weight [kg]	69
Bezel Width [mm]	32
VESA Mounting [mm]	400 x 400; 4 holes; M6 IP40
Ingress Protection	(front); IP20 (back)

Touch

Touch Technology	ShadowSense™ Touch
Number of Touches	Real multi-touch up to 10 touches
Response Time [ms]	6 to 8
Touch Active Area (W x H) [mm]	1429 x 804
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	12-bit (4096 x 4096)
Ambient Light Rejection	Up to full sunlight (approx. 100000 lux)

Additional Features

Special Characteristics	Advanced fan control; Ambient Light Sensor; Automatic Alarm E-Mails; Copy display settings through RS232; DICOM support; Hardware colour calibration possible; Input name adjustment; Matrix memory; NaViSet Administrator 2; OSD rotation for portrait mode; PIN as theft protection; Rapid input switching; Scheduler; Screen saver functions; TileMatrix (10 x 10); User input priority definition; Various picture in picture options
Colour Versions	Black Front Bezel, Black Back Cabinet
Safety and Ergonomics	BSMI; C-tick; CE; EAC; FCC Class B; KC/KCC; PSB; SASO; TÜV GS; TÜV S; UL/C-UL or CSA; VCCI
Plug and Play	VESA DDC2Bi
Audio	Integrated Speakers (10 W + 10 W); Optional Speakers (15 W + 15 W)
Shipping Content	Display; Free LAN control software (download); Power Cable; Remote Control; VGA cable
Warranty	3 years conditional warranty; additional services available
Operating Hours	24/7

Available Options

Accessories	Wall Mount (LPAU, RXF2, RXT2, XSM1U, LSM1U, XTM1U, LTM1U, MTMP1U) *Wall Installation Only, not compatible with current NEC stands*
OPS Slot	HD-SDI 1.5G, 3G; HDBaseT receiver; Intel® Atom, Celeron and Core CPUs

Green Features

Energy Efficiency	Ambient light sensor; Annual energy consumption: 72 kWh (based on 4 operating hours per day); ECOMode; Energy efficiency class: B
Ecological Materials	Manuals on CD; Optional feet

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