

MultiSync® P654Q LCD 65" Professional Large Format Display

# **Datasheet**





#### The Definition of Digital Signage

Modular and scalable, NEC's MultiSync® P654Q display brings powerful capability for best-in-class large screen visualisation. Deliver your message with impact and seamless simplicity for the most convincing results.

Stunning UHD "pixel-free" ergonomic viewing is smartly merged with reliable colour reproduction for the most realistic and thrilling images with expanded contrast ratios. Compelling readability even in bright ambient light conditions is guaranteed with high brightness levels of 700 cd/m² combined with an anti-glare surface. Its modern, slim design forms an elegant digital surface which perfectly complements the surrounding architecture and integrates seamlessly into any environment. The Open Modular Intelligence (OMi) approach provides tailor-made signage solutions, where scalable computing power such as Raspberry Pi compute modules or OPS Slot-in PCs are seamlessly embedded into the display.

The 65" MultiSync® P654Q is the most reliable choice for large visual surfaces in bright retail environments, passenger information and other public spaces as well as for colour critical reference applications in science, media and control rooms.

#### **Benefits**

**Superb readability in bright light environments** – crisp playback of content thanks to high brightness output of 700 cd/m<sup>2</sup> and anti-reflective screen surface delivers clearly visible messages even under varying and demanding ambient conditions.

**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.

**Future-proof signal connectivity and processing** – numerous native UHD resolution inputs with 60Hz refresh rate including DisplayPort, HDMI and an option slot for OPS Slot-in PCs, plus automatic upscaling to UHD for other signals, provide "pixel-free viewing" on a large scale.

**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.

**Enhanced imaging performance** – advanced settings of all relevant visual parameters allow full control of brightness, colour, gamma and uniformity via the SpectraView Engine for precise, natural images.

Modern and slim design - robust yet elegant allowing for an unobtrusive integration into any application and environment.

**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® P654Q
Product Group	LCD 65" Professional Large Format Display
Order Code	60004042

# **Display**

Panel Technology	VA with Direct LED backlights
Active Screen Area (W x H) [mm]	1,428.5 x 803.5
Screen Size [inch/cm]	65 / 164
Brightness [cd/m²]	700, 490 (shipment setting)
Contrast Ratio (typ.)	4000:1
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
Vertical Frequency [Hz]	24 - 85

### Resolution

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

# Connectivity

Input Video Digital	2 x DisplayPort (with HDCP); 3 x HDMI (with HDCP)
Input Audio Analogue	1 x 3,5 mm jack
Input Audio Digital	2 x DisplayPort; 3 x HDMI
Input Control	1 x LAN 100Mbit; 1 x Remote Control (3.5 mm jack); 1 x RS232
Input Data	$1 \times \text{microSD}$ (MediaPlayer); $1 \times \text{USB}$ 2.0 (Downstream); $1 \times \text{USB}$ 2.0 (MediaPlayer); $1 \times \text{USB}$ Type-B (Upstream); $2 \times \text{USB}$ 2.0 (Compute Module, $1 \times \text{5V/2A}$ 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]	4.7 / 75
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 Eco/max. [W]	230 Eco (shipment setting), 300		
Power Savings Mode [W]	< 0.5; < 2 (Networked Standby)		
Power Management	VESA DPMS		
<b>Environmental Condition</b>	s		
Operating Temperature [°C]	+0 to +40		
Operating Humidity [%]	20 to 80		
Mechanical			
Dimensions (W x H x D) [mm]	Without stand: 1,457 x 832 x 79		
Weight [kg]	41		
Bezel Width [mm]	13.2		
VESA Mounting [mm]	4 holes; 400 x 400 (FDMI); 600 x 400 (FDMI); M8		
Ingress Protection	IP5x (front); IP2x (back)		
MediaPlayer			
Supported File Storage / File System	MicroSDHC / FAT16, FAT32; USB 2.0 / FAT16, FAT32		
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		
Available Options			
Accessories	Feet (ST-801); Speaker (SP-654QSM, SP-TF1); Trolley (PD02MHA, PD03MHA, PDMHM-L); Wall mount (PDW T XL-2)		
Compute Module Slot	NEC Compute Module; Raspberry Pi Compute Module 1 and 3		
OPS Slot	HDBaseT receiver; Intel® Atom, Celeron and Core CPUs; OPS-2C Quad 3G SDI		
Green Features			
Energy Efficiency	Ambient light sensor; Annual energy consumption: 274 kWh (based on 4 operating hours per day); Carbon savings meter; ECOMode; Energy efficiency class: B; Local dimming		
Additional Features			
Special Characteristics	12-bit Look Up table; Ambient Light Sensor; AMX NetLinx Support; ASCII Control Commands; Auto ID assignment; Auto tiling function; Automated Email Alert; CEC Support; Cisco Webex Kit compatible; Crestron Connected Support; DICOM Simulation; Display Browser Control; Emergency Notification; HDMI with UHD at 60 Hz; HDR Gamma Support (HLG, PQ); KeyGuide; MediaPlayer with Browser Control; NaViSet Administrator 2; OmniColor Control; OSD rotation for portrait mode; PIN as theft protection; PJLink Support; Powered USB-Port; Removable Logo; Scheduler; Slim LED Indicator; SNMP Support; TileMatrix (10 x 10); User readable log function		

Colour Versions	optional coloured overframes
Safety and Ergonomics	CE; EAC; EMC Class B; FCC; SASO; TÜV GS; UL/C-UL or CSA; VCCI
Pixel Failure Class	ISO 9241-307, Class 1
Audio	Integrated Speakers (10 W + 10 W); Optional Speakers (15 W + 15 W)
Shipping Content	CD-ROM (User Guides/Manuals); Display; DisplayPort Cable; Remote Control; USB cable
Warranty	3 years warranty incl. backlight; additional services available; optional 4. + 5. year warranty extension
Operating Hours	24/7







CE TÜV GS

VCCI

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