

MultiSync® V554-RPi LCD 55" Value Large Format Display

Datasheet





The smartest choice for digital signage

For compelling Digital Signage results, NEC's MultiSync® V554-RPi combines professional display capabilities with the smartness of Raspberry Pi computing at the lowest operational investment.

Pre-installed into the 55" signage display, the NEC Edition of the Raspberry Pi 3 Compute Module boosts the display performance to suit any visual application and opens a gateway to the IoT. The NEC Edition tops the standard Raspberry Pi performance with extended memory capabilities and intelligent digital signage support such as the Watch Dog Timer and Real Time Clock for scheduling. Convincing visibility under common light conditions is guaranteed thanks to the combination of 500 cd/m² brightness output and an anti-glare surface. The modern and slim design is the perfect fit to complement the surrounding architecture as well as for integration into any application and environment.

The MultiSync® V554-RPi provides the smartest combination of embedded computing power with professional digital signage displays for big and lasting impressions in retail environments, leisure and museum environments, quick service restaurants and corporate signage solutions as well as for smaller meeting facilities.

Benefits

Designed for professional Digital Signage – the NEC Edition features an extended onboard memory of 16 GB, a Watch Dog Timer and a Real Time Clock as well as pre-loaded licences for video decoding to meet the particular demands of professional signage applications

Powerful possibilities – the Quad Core 1.2 GHz processor provides amazing performance for crisp Full HD playback with an unrivalled price-performance ratio.

Unlimited versatility – supporting a broad range of operating systems, this open platform offers high flexibility for digital signage software providers and system integrators.

Reliable colour reproduction – due to 10-bit colour performance, extreme viewing angles and hardware calibratable LUT, viewers benefit from consistently accurate image rendering.

Ease of use and operation – Smart installation, operation and maintenance functionality ensures accurate performance over the entire lifetime of the display saving time, effort and resources.

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

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.

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 Name	MultiSync [®] V554-RPi
Product Group	LCD 55" Value Large Format Display
Order Code	60004408

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]	500, 350 Eco (shipment setting)
Contrast Ratio (typ.)	1200:1
Viewing Angle [°]	178 / 178 (at contrat ratio > 10:1)
Colour Depth [bn]	1.073 (10bit)
Response Time (typ.) [ms]	8 (grey-to-grey)
Haze Level [%]	Pro (44)
Supported Orientation	Landscape, Portrait, Face Up, Face Down

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

1 x VGA
1 x DVI-D (with HDCP); 2 x DisplayPort (with HDCP); 2 x HDMI (with HDCP)
2 x 3,5 mm jack
2 x DisplayPort; 2 x HDMI
1 x LAN 100Mbit; 1 x Remote Control (3.5 mm jack); 1 x RS232
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)
1 x DisplayPort (loop through: DisplayPort, OPS slot-in PC)
1 x 3,5 mm jack
1 x LAN 100Mbit

Open Modular Intelligence

OPS Slot	Slot Technology: Open pluggable specification (NEC / Intel OPS standard)
OPS Max. Current / Power	10 / 61
Consumption [A / W]	
Compute Module Slot	Slot Technology: Compute Module Slot (NEC proprietary standard) with pre-installed Raspberry Pi 3
	Compute Module NEC Edition

Compute Module Specification Realtime clock; Watchdog Timer CPU: Quad Core 64-bit ARM Cortex A53 @ 1.2GHz Graphics: 1.2GPixel / sec OpenGL ES 2.0 3D; Hardware video encode / decode (MPEG2, MPEG4, H.264, VC-1 up to 1080p60) Memory: 16GByte on-board eMMC RAM: 1GByte LPDDR2 SDRAM OS: Standard: Raspbian Jessie with PIXEL Other supported OS: RISC OS; Various Linux flavours (Arch, Ubuntu); Win10 IoT 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] 105 Eco (shipment setting), 150 Power Savings Mode [W] < 0.5 (ECO Standby); < 3 (Networked Standby) VESA DPMS **Power Management Environmental Conditions** Operating Temperature [°C] +0 to +40 Operating Humidity [%] 20 to 80 Mechanical Dimensions (W x H x D) [mm] 1,244 x 714.8 x 62.9 Weight [kg] 24 5 Bezel Width [mm] 14.2 (left and right); 14.2 (top and bottom) VESA Mounting [mm] 300 x 300 (FDMI); 4 holes; M6 Ingress Protection IP5X (front); IP2X (back) **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	Display: C-Tick; CE; EMC Class B; FCC; PSB; RoHS; TÜV GS; UL/C-UL
	Compute Module: CE; FCC
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
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, SP-554SM); Trolley (PDMHM-L); Wall mount (PDW S 32-55 L and P, PD02W T L L, PD03W T M P)
Compute Module Slot	NEC Compute Module: Raspherry 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: 175 kWh (based on 4 operating hours per day); Carbon savings meter; ECOMode; Energy efficiency class: B; Human Sensor
Ecological Materials	Manuals on CD; Optional feet

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EnergyStar 7.0

Ecological Standards

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