

## NEC MultiSync® M981 LCD 98" Message Large Format Display

### Datasheet



#### **Intuitive professional content delivery**

Great first impressions can make all the difference; presenting your business in the best possible way will boost your brand. With slim, modern styling, 24/7 operation and high haze panel to reduce reflections when ambient light is high, the M series is the professional way to deliver your message, yet at an attractive price point.

With the optional NEC MediaPlayer or the more powerful Intel® Smart Display Module (Intel® SDM) computing device, you are primed and ready for intuitive signage creation delivering real-time media playback for exceptional visual experiences. For advertising, infotainment and meeting room applications, the M Series provides powerful, upgradable functionality and all the aesthetic appeal to effortlessly reflect your brand credentials.

#### **Benefits**

**Unhindered readability** – no reflections from windows or other light sources means no disruption to the visibility of signage content or meeting room presentation

**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.

**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 Ready Connectivity** - featuring multiple industry standard digital and analogue signal inputs for flexible integration into AV infrastructures.

**Secure remote management** - control your devices remotely and securely using NEC NaviSet Administrator 2; proactively manage maintenance requirements saving time and resources

## Product Information

Product Name	NEC MultiSync® M981
Product Group	LCD 98" Message Large Format Display
Order Code	60005069

## Display

Panel Technology	IPS with Direct LED backlights
Screen Size [inch/cm]	98 / 248.92
Aspect Ratio	16:9
Brightness [cd/m <sup>2</sup> ]	500
Contrast Ratio	≥ 8000:1 <sup>1</sup>
Viewing Angle [°]	178 horizontal / 178 vertical (typ. at contrast ratio 10:1)
Colour Depth [bn]	1.073 (10bit)
Colour Gamut	68% of DCI
Response Time (typ.) [ms]	8
Panel Refresh Rate [Hz]	60
Haze Level [%]	Pro (28)
Supported Orientation	Landscape; Portrait

## Resolution

Native Resolution	3840 x 2160			
Supported Resolutions	1024 x 768; 1280 x 1024; 1280 x 720; 1360 x 768;	1366 x 768; 1400 x 1050; 1440 x 900; 1600 x 1200;	1920 x 1080; 1920 x 1200; 1920 x 2160; 2560 x 1440;	2560 x 1600; 3840 x 2160; 4096 x 2160; 7680 x 4320

## Synchronisation Rate

Horizontal Frequency [kHz]	15 - 135
Vertical Frequency [Hz]	23 - 76

## Connectivity

Input Video Digital	2 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
Input Data	1 x USB 2.0 (Downstream); 1 x USB 2.0 (Powered 5V/2A, Firmware Updates); 1 x USB 2.0 Type-B (Downstream)
Output Video Digital	1 x DisplayPort (loop through: DisplayPort, SDM slot-in PC); 1 x HDMI (loop through: HDMI, SDM slot-in PC); DP (in) to HDMI (out) conversion

Output Audio Analogue	1 x 3,5 mm jack
Output Control	1 x LAN 100Mbit
Input Detect	Custom; First; Last
PiP/PbP	Dual-Split; Quad-Split; scalable picture size

## Calibration

Factory Calibration	Gamma; Intensity; RGB; Uniformity; White Point
Sensor Calibration (through USB)	PC-less Calibration with USB Sensor MDSV Sensor3; White Copy (post self-calibration)
Calibration with Software	Corner Uniformity; Gamma; Intensity; RGB; Update Factory Calibration; White Point
Calibration Software	NEC Display Wall Calibrator

## Open Modular Intelligence

Intel® SDM	accepts Intel® Smart Display Modules Large and Small up to 66 W
Compute Module Slot	RPi Compute Module 4

## Sensors

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

## Electrical

Power Consumption [W]	340 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 80
Storage Temperature [°C]	-20 to 60

## Mechanical

Dimensions (W x H x D) [mm]	2,194.7 x 1,250.2 x 84.3
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Weight [kg]	67
Bezel Width [mm]	14.3 (left, right and top); 14.8 (bottom)
VESA Mounting [mm]	4 holes; 600 x 400 (FDMI); M8
Ingress Protection	IP5x (front); IP2x (back)
Packaging Dimensions (W x H x D) [mm]	2,350 x 1,400 x 310
Packaging Weight [kg]	98.7
Colour Bezel	Pantone 426M (black)
Material	Metal

### Available Options

Accessories	Feet (ST-801); Speaker (SP-RM3); Trolley (L20PNSR780MEU, PD02MHA, PD03MHA); Wall mount (L20PNWALL90EU, SF680P)
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### Regulatory

Safety and Ergonomics	BSMI; CE; EAC; EMC Class B; Energy Star 8; FCC Class B; KC/KCC; PSB; RCM; RoHS; VCCI
Pixel Failure Class	ISO 9241-307, Class 1
Resistance to Fire	Metal backcover, plastic material certified acc. to UL94-5VB

### Green Features

Energy Efficiency	Energy consumption: 205 kWh/1000 h; Energy efficiency class: F; LED backlight
Ecological Standards	EnergyStar 8.0

### 3rd Party Certifications

Cisco	Verified for Cisco Collaboration Devices
Crestron	Certified for Crestron Connected

### Additional Features

Special Characteristics	DICOM Simulation; HDMI ARC; Powered USB Port (10 W); Removable Logo
Audio	Integrated Audio Amplifier (for optional speakers up to 2 x 15 W); Integrated Speakers (10 W + 10 W)
Shipping Content	2x AAA batteries; Display; HDMI Cable; Power Cable; Remote Control; Setup Manual
Warranty	3 years warranty incl. backlight; additional services available; optional 4. + 5. year warranty extension <sup>2</sup>
Operating Hours	24/7
External Control	AMX NetLinx Support; ASCII Control Commands; Crestron Connected; 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

<sup>1</sup> out of the box conditions, local dimming ON

<sup>2</sup> please refer to terms and conditions of warranty extensions



FCC Class B



CE



RoHS



RCM



VCCI

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