

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;<br>1280 x 1024;<br>1280 x 720;<br>1360 x 768; | 1366 x 768;<br>1400 x 1050;<br>1440 x 900;<br>1600 x 1200; | 1920 x 1080;<br>1920 x 1200;<br>1920 x 2160;<br>2560 x 1440; | 2560 x 1600;<br>3840 x 2160;<br>4096 x 2160;<br>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                  |
| 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) |
|-------------|--|

## Green Features

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

## Additional Features

|                         |  |
|-------------------------|--|
| Special Characteristics | DICOM Simulation; HDMI ARC; Powered USB Port (10 W); Removable Logo  |
| 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  |
| 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   |
| Resistance to Fire | Metal backcover, plastic material certified acc. to UL94-5VB   |

<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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