LCD 98" Message Large Format Display

# NEC MultiSync® M981

## 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

# Specifications

## 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/m²]**
500

**Contrast Ratio**
≥ 8000:1 [1]

**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; | 1440 x 900; | 2560 x 1600; |
| 1280 x 1024; | 1600 x 1200; | 3840 x 2160; |
| 1280 x 720; | 1920 x 1080; | 4096 x 2160; |
| 1360 x 768; | 1920 x 1200; | 7680 x 4320 |
| 1366 x 768; | 1920 x 2160; | |
| 1400 x 1050; | 2560 x 1440; | |

## 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 MDSVSensor3; White Copy (post self-calibration)

**Calibration with Software**
Corner Uniformity; Gamma; Intensity; RGB; Update Factory Calibration; White Point

**Calibration Software**
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]**
15.9 (symmetrical)

**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

**Material**
Metal

## Available Options

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

## 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 [2]

### 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; NaViSet Administrator 2

### Security
Disable HW Buttons; Disable IR Functionality; Emergency Notification

[1] out of the box conditions, local dimming ON

[2] please refer to terms and conditions of warranty extensions

FCC Class B CE RoHS RCM VCCI

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