

LCD 50" Message Large Format Display

# Sharp MultiSync® M502



## Built to perform, designed to last

The versatile solution for professional display applications, the Sharp MultiSync® M2 Series (32" up to 98") is purpose-built for demanding signage and meeting room environments. With native USB-C connectivity and broad compatibility with platforms such as Crestron, Cisco Webex, and Microsoft Teams, it enables seamless BYOD collaboration and future-ready integration, while 802.1x LAN support ensures enterprise-grade network security. Featuring class-leading 550 cd/m<sup>2</sup> brightness, a high-haze panel to minimise glare, and NEC's trusted SpectraView Engine, the M2 Series delivers outstanding visual performance with unmatched colour precision.

As part of the new Sharp-branded display family, the MultiSync® M2 Series builds on NEC's legacy of quality and reliability to drive greater efficiency and long-term value. Its proven modular design supports custom computing options (Raspberry Pi or Intel® SDM) and flexible connectivity (e.g. AV-over-IP), ensuring lasting versatility, performance, and sustainability.

## Benefits

**Seamless meeting workflows** – a single USB-C cable transmits video, data, and power for instant, clutter-free meeting setups. As the established standard for modern collaboration spaces, USB-C supports frictionless BYOD experiences.

**Unhindered readability** – a high-haze panel reduces glare from windows and ambient light, keeping signage content and presentations clear for uninterrupted viewing in any environment

**Security assured** – 802.1x support over LAN enables high-level security for corporate networks, giving peace of mind for IT teams and enterprise environments.

**Enhanced imaging precision** – when brand consistency and corporate identity are important, NEC's SpectraView Engine provides full control over colour, gamma, and uniformity for accurate and impactful content.

**Broad AV compatibility** – fully interoperable with leading meeting room platforms including Crestron (XiO Cloud), Cisco Webex, Q-Sys, and Microsoft Teams, ensuring effortless integration and future-proof scalability.

# Specifications

## Product Information

### Product Name

Sharp MultiSync® M502

### Model

PN-M502

### Product Group

LCD 50" Message Large Format Display

### Order Code

PNM502

## Display

### Panel Technology

VA with Direct LED backlights

### Active Screen Area (W x H) [mm]

1,095.8 x 616.4

### Screen Size [inch/cm]

50 / 125.7

### Aspect Ratio

16:9

### Pixel Pitch [mm]

0.285

### Brightness [cd/m<sup>2</sup>]

550

### 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

72% of NTSC

### Response Time (typ.) [ms]

8

### Panel Refresh Rate [Hz]

60

### Haze Level [%]

Pro (25)

## Supported Orientation

Face Up <sup>2</sup>; Landscape; Portrait

## Resolution

### Native Resolution

3840 x 2160

### Supported Resolutions

|              |              |              |
|--------------|--------------|--------------|
| 1024 x 768;  | 1440 x 900;  | 4096 x 2160; |
| 1270 x 720;  | 1600 x 1200; | 640 x 480;   |
| 1280 x 1024; | 1680 x 1050; | 720 x 400;   |
| 1280 x 720;  | 1920 x 1080; | 720 x 480;   |
| 1280 x 800;  | 1920 x 1200; | 720 x 576;   |
| 1360 x 768;  | 1920 x 1200; | 800 x 600    |
| 1366 x 768;  | 1920 x 2160; |              |
| 1400 x 1050; | 3840 x 2160; |              |

## Synchronisation Rate

### Horizontal Frequency [kHz]

15 - 135

### Vertical Frequency [Hz]

23 - 76

## Connectivity

### HDMI IN 1

Video Input; UHD (60 Hz) HDCP (2.2); Audio Input; ARC; CEC

### HDMI IN 2

Video Input; UHD (60 Hz) HDCP (2.2); Audio Input; CEC

### HDMI OUT

Video Output; UHD (60 Hz) HDCP (2.2); Audio Output; Loop Through: HDMI IN 2, Option, Compute module

### DP IN 1

Video Input; UHD (60 Hz) DP 1.2; HDCP (2.2); Audio Input

### DP OUT

Video Output; UHD (60 Hz) DP 1.2; HDCP (2.2); Audio Output; Loop Through: DisplayPort IN, USB-C 2

### USB-A 1

USB (2.0 / 3.2); 4.5 W; Peripherals; USB Storage

### USB-A (Service)

2.5 W; Service

### USB-C 1

Video Input; UHD (60 Hz); DP alt. 1.2; HDCP (2.2); Audio Input; USB 2.0 / 3.2; 65 W

### USB-C 2

USB 2.0 / 3.2; 7.5 W; Peripherals; Storage

### Audio Output (3.5 mm)

Audio Output; Line Out

### LAN 1

100 MBit/s

### LAN 2

Loop Through: LAN 1, RS-232C, IR; 100 MBit/s

### RS-232C

9600 bps

### Remote In (3.5 mm)

Eco Sensor (IR-Extender, Ambient and Presence)

### Input Detect

Custom; Last; First

### PiP / PbP

2-Split; Scalable picture size

## Calibration

### Factory Calibration

Gamma; Intensity; RGB; Uniformity; White Point

### 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

MPi4 and MPi5 Kit (powered by Raspberry Pi)

## Sensors

### Ambient Light Sensor

Integrated, triggered actions programmable

### Human Sensor

optional via Eco Sensor (KTES1)

### Temperature Sensor

Integrated, 3 sensors, triggered actions programmable

## Electrical

### Power Consumption [W]

85 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]

1,121.6 x 645.2 x 66.5

### Weight [kg]

18

### Bezel Width [mm]

10.9 (left/right/top); 13.9 (bottom)

### VESA Mounting [mm]

300 x 300 (FDMI); 4 holes; M6

### Ingress Protection

IP5x (front); IP2x (back)

### Packaging Dimensions (W x H x D) [mm]

1,245 x 785 x 188

### Packaging Weight [kg]

23

### Material

Metal

Available Options

Accessories

Eco Sensor (KTES1); Feet (ST-43M); Remote control kit (KTRC3); Soundbar (PN-ZCMS1); Speaker (SP-RM3a); Trolley (PD04 Tipster); USB-C cable (USB-C 5M, USB-C 7M); Wall mount (PDW S 32-65 L, PDW S 32-65 P)

Regulatory

Safety and Ergonomics

CE; EMC Class B; Energy Star 8; FCC Class B; REACH; RoHS; UKCA; UL/C-UL or CSA

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: 81 kWh/1000 h; Energy efficiency class: G; LED backlight

Ecological Standards

EnergyStar 8.0

3rd Party Certifications

Crestron

Certified for Crestron CCV2 and XiO Cloud

Additional Features

Special Characteristics

CEC Support; Clone Settings; DICOM Simulation; HDMI ARC; Scheduler

Colour Versions

Black Front Bezel, Black Back Cabinet

Audio

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>3</sup>

Operating Hours

24/7

External Control

AMX NetLinx Support; Crestron V2; HDMI CEC; HTTP Browser; PJLink; Scheduled Timer; SNMP

Remote Management

NaViSet Administrator 2

Security

Disable HW Buttons; Disable IR Functionality; IEEE802.1X (LAN)

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

<sup>2</sup> adjusted usage conditions for face up/down installations, please refer to operational guidelines or contact our support

<sup>3</sup> please refer to terms and conditions of warranty extensions

