

# 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**  
60006054

## 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 and 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



FCC Class B

CE



RoHS

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