



## Sharp MultiSync® M502

LCD 50" Message Large Format Display

# Datasheet



### 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.

**Product Information**

Product Name	Sharp MultiSync® M502
Model	PN-M502
Product Group	LCD 50" Message Large Format Display
Order Code	PN-M502

**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/m²]	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; 1366 x 768; 1920 x 1200; 720 x 400; 1270 x 720; 1400 x 1050; 1920 x 1200; 720 x 480; 1280 x 1024; 1440 x 900; 1920 x 2160; 720 x 576; 1280 x 720; 1600 x 1200; 3840 x 2160; 800 x 600 1280 x 800; 1680 x 1050; 4096 x 2160; 1360 x 768; 1920 x 1080; 640 x 480;

**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); Remote control kit (KTRC3); Soundbar (PN-ZCMS1)
-------------	---

**Regulatory**

Safety and Ergonomics	CE; EMC Class B; Energy Star 8; FCC Class B; RCM; 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**

## 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;
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

# SHARP

### SHARP CORPORATION OF AUSTRALIA PTY LTD

ABN 40 003 039 405  
P.O. Box 84, Macquarie Park, NSW 2113  
Tel: 1300 135 022  
[www.sharp.net.au](http://www.sharp.net.au)

Sharp, and all related trademarks are trademarks or registered trademarks of Sharp Corporation and/or its affiliated companies. The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. All other brand names and product names may be trademarks or registered trademarks of their respective owners. Design and specifications are subject to change without prior notice.

09/2025