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/m² 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/m²]
550

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
72% of NTSC

Response Time (typ.) [ms]
8

Panel Refresh Rate [Hz]
60

Haze Level [%]
Pro (25)

Supported Orientation
Face Up [2]; 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

Cisco
Verified for Cisco Collaboration Devices

Crestron
Certified for Crestron CCV2 and XiO Cloud

Q-Sys
Q-Sys Plug-in

Additional Features

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

Colour Versions
Black Front Bezel, Black Back Cabinet

Audio
Integrated Speakers (2 x 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 [3]

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)

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

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

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

FCC Class B CE RoHS

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