

LCD 55" Infrared Touch Display

Sharp LM551



Multi-purpose for interactive engagements

For best-in-class touch performance and value, the Sharp LM series commands feature-rich professional capabilities for small meeting spaces and interactive signage applications. An integrated System on Chip (SoC) with Android 14 CTS-compliant Operating System offers the most up to date features and security for seamless out-of-the-box collaboration.

Boosting creativity in group collaboration, the Sharp LM series features intuitive Pen-on-Paper writing, a built-in whiteboard, annotation overlay mode and Windows Ink support. Using the on-board EShare app, content can be wirelessly shared from any personal device to the display without the need for apps or dongles. A single USB-C cable transmits data, video/audio output and power delivery between notebook and display for the simplest and seamless BYOD workflows.

With its 4-sided uniform slim bezel design, the Sharp LM series supports installations in both landscape and portrait as well as tilted desk. Dedicated features including hide side bars, application lock and a built-in web browser make the Sharp LM series the perfect display for budget-driven interactive signage applications.

Benefits

Best readability – high brightness panel ensures content is readable even in well-lit environments and anti-glare coating avoids distracting reflections.

Pen-On-Paper user experience – Zero bonded glass and latest infrared touch technology enable highly accurate and responsive writing and drawing with up to 20 touch points.

Out-of-the-box collaboration – the integrated Android PC features a powerful home screen launcher offering fast and flexible access to a range of pre-installed applications.

Highly customizable – a variety of settings allow the display to be optimised to meet the needs of different applications, from small meeting and huddle rooms to touch signage and wayfinding.

Safe & Secure – latest Android 14 SoC provides a secure operating system which, together with extra security features, meets the highest IT security standards.

Specifications

Product Information

Product Name

Sharp LM551

Model

PN-LM551

Product Group

LCD 55" Infrared Touch Display

Order Code

PNLM551

Display

Panel Technology

VA with Direct LED backlights

Screen Size [inch/cm]

55 / 138.8

Aspect Ratio

16:9

Brightness (without glass) [cd/m²]

500

Contrast Ratio (typ.)

5000:1

Viewing Angle [°]

178 horizontal / 178 vertical (typ. at contrast ratio 10:1)

Colour Depth [bn]

1.07 (8bit + FRC)

Response Time (typ.) [ms]

8 (grey-to-grey)

Panel Refresh Rate [Hz]

60

Haze Level [%]

25

Supported Orientation

45° Tilted Backwards; Landscape; Portrait

Touch

Touch Technology

Infrared

Number of Touches

Real multi-touch up to 20 touches

Touch Method

Finger; Gloves; Stylus dual pen tip (2.6mm/6.8mm)

Data Interface

USB 2.0 (full speed) HID; USB powered, plug & play

Accuracy [mm]

+/- 1

Windows Ink

Yes

Palm Rejection

No

Operating System

Native Multi-Touch: Windows 10/11, Linux, Android, Chrome OS;
Single Touch (Default Mouse): Mac OS 13/14/15

Protective Glass

Type

Thermal-tempered, anti-glare coating; Zero Bonding

Bonding Gap [mm]

0.85

Thickness [mm]

3.1

Hardness [H]

9

Resolution

Native Resolution

3840 x 2160

Supported Resolutions

1024 x 768;	1440 x 900;	4096 x 2160;
1280 x 1024;	1680 x 1050;	640 x 480;
1280 x 720;	1920 x 1080;	720 x 400;
1280 x 960;	3840 x 2160;	800 x 600

Synchronisation Rate

Horizontal Frequency [kHz]

31.5 - 135

Vertical Frequency [Hz]

24 - 70

Connectivity**HDMI IN 1**

Video Input; UHD (60 Hz) HDCP (2.3); Audio Input; CEC

HDMI IN 2

Video Input; UHD (60 Hz) HDCP (2.3); Audio Input; CEC

HDMI IN 3

ARC; Video Input; UHD (60 Hz) HDCP (2.3); Audio Input; CEC

HDMI OUT

Internal SoC content: FHD (60 Hz) HDCP (2.3); UHD (60 Hz); Video Output; Audio Output; Loop Through: HDMI IN 1/2/3, OPS, USB-C, Android SoC

USB-A 1

USB (3.0); Peripherals; USB Storage; Auto Switch (Android SoC, OPS, PC)

USB-A 2

USB (3.0); Peripherals; USB Storage; Auto Switch (Android SoC, OPS, PC)

USB-A 3

USB (3.0); Peripherals; USB Storage; Auto Switch (Android SoC, OPS, PC)

USB-A (Service)

Wireless Adapter; USB 2.0; Service

USB-C 1

Touch Signal; Video Input; UHD (60 Hz); DP alt. 1.4; HDCP (2.3); Audio Input; USB 2.0 / 3.0; 65 W

USB-C 2

USB 3.0; 7.5 W; Peripherals; Auto Switch (Android SoC, OPS, PC)

USB-B 1

Touch Signal; USB (3.0)

Audio Output (3.5 mm)

Audio Output; Line Out

LAN 1

100 MBit/s

RS-232C

9600 bps

Remote In (3.5 mm)

Eco Sensor (IR-Extender, Ambient and Presence)

Input Detect

First

Open Modular Intelligence**OPS Slot**

Slot Technology: Open pluggable specification (NEC / Intel OPS standard)

Sensors**Ambient Light Sensor**

optional via Eco Sensor (KTES1)

Human Sensor

optional via Eco Sensor (KTES1)

Electrical**Power Consumption [W]**

145 shipping

Power Savings Mode [W]

< 0.5 (ECO Standby); < 2 (Networked Standby)

Power Management

VESA DPMS

Power Supply

100-240 V AC; 50/60 Hz

Environmental Conditions**Operating Temperature [°C]**

+5 to +35

Operating Humidity [%]

20 to 80

Storage Humidity [%]

10 to 80

Storage Temperature [°C]

-20 to 60

Mechanical**Dimensions (W x H x D) [mm]**

Without stand: 1,265 x 736 x 73

Weight [kg]

33

Bezel Width [mm]

15 (symmetrical)

VESA Mounting [mm]

400 x 400 (FDMI); M6

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

1,410 x 885 x 185

Packaging Weight [kg]

43

Material

Aluminum alloy (front side); metal (back side)

Embedded Computing

System Version

Android 14

CPU

Arm Cortex A53x4 2 GHz (octo-core); Arm Cortex A73x4 2.3 GHz

System Memory

4G RAM

Internal Storage

32GB ROM

Android Features

App side loading (Google CTS compliant); Application lock; Hide Android SoC; Hide side bar; Portrait support (apps and OSD)

Built-in Applications

File Manager; Input Select; Office and PDF Viewer - MobiOffice; Setting; Web Browser; Whiteboard; Wireless Screen Sharing - E-Share

Built-in Tools

Annotation overlay mode

Bluetooth

Bluetooth

5.3 compliant: A2DP; AVRCP; GATT; HID

Wireless LAN

WLAN

IEEE802.11 a/b/g/n/ac/ax compliant; WPA/WPA2/WPA3 Enterprise, Access Point

Available Options

Accessories

Eco Sensor (KTES1); Feet (ST-43M); Soundbar (PN-ZCMS1); Trolley (PD04 Tipster; EVER 350 Mobile Motor); USB-C cable (USB-C 5M; USB-C 7M); Wall mount (PDW S 32-65 L & P)

OPS Slot

Recommended: OPS Enterprise Pro, OPS Enterprise Ultra

Regulatory

Safety and Ergonomics

CE; EMC Class B; RoHS; UKCA

Pixel Failure Class

ISO 9241-307, Class 1

Green Features

Energy Efficiency

ECOMode; LED backlight

Ecological Standards

EnergyStar 8.0

3rd Party Certifications

Barco ClickShare

Tested compatible for Barco ClickShare (Conference)

Q-Sys

Q-Sys Plug-in

Additional Features

Special Characteristics

CEC Support; HDMI ARC; NaViSet Administrator 2 - free download; OSD rotation for portrait mode; Powered USB Port (65 W); Scheduler

Audio

Integrated Speakers (10 W + 10 W)

Shipping Content

2 x Passive Stylus; 2x AAA batteries; Blank Sticker; Bracket for Camera; Cable Clamps; Display; Power Cable; Remote Control; Setup Manual; USB cable; Wireless Adapter

Warranty

3 years warranty incl. backlight; optional 4. + 5. year warranty extension¹

Operating Hours

18/7

External Control

HDMI CEC; Scheduled Timer

Remote Management

NaViSet Administrator 2

Security

Disable HW Buttons; Disable IR Functionality; Disable USB and LAN Ports; IEEE802.1X (LAN & Wi-Fi)

¹ please refer to terms and conditions of warranty extensions



RoHS



CE

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