

Sharp PN-LC862 LCD 86" Infrared Touch Display

Datasheet



Boost engagement in learning environments

When you need to engage your audience, you need to make your delivery interactive. NEC/Sharp's expertise in touch screens for education brings forth the LC series, designed to meet the demand for Bring Your Own Device (BYOD) preferences. Equipped with seamless USB-C connectivity, just a single cable connects display to personal device whilst receiving charge in return. Size up your screen area by connecting another display or projector via HDMI-OUT to be seen by a bigger audience.

An all-in-one solution, the LC series features pre-installed functionality for instant interactivity, and with the EShare feature, content can be wirelessly shared between devices for best collaboration amongst peers and mentors.

For higher education in classrooms and small work groups, the LC series offers low cost, easy to use functionality to boost engagement in learning environments.

Benefits

Enjoy a natural writing experience – with precise and responsive touch interaction through bonded screen technology.

Get an out-of-the-box-ready experience – with interactive functionality pre-installed; no external devices needed for an all-in-one solution.

EShare – boosts participation by wirelessly sharing content from your device to the display, and from the display to multiple devices simultaneously.

USB-C connectivity – instantly appeals to today's users who favour using their own device. A single cable transmits data, video/ audio output and power delivery for the simplest and seamless connection, even powering the connected device at the same time.

HDMI-OUT – allows connection of an additional output device such as a projector to present content on a larger canvas to reach a bigger audience.

Product Information

Product Name	Sharp PN-LC862
Product Group	LCD 86" Infrared Touch Display
Order Code	60005901

Display

Panel Technology	IPS with Direct LED backlights
Active Screen Area (W x H) [mm]	1,895 x 1,066
Screen Size [inch/cm]	86 / 217.4
Aspect Ratio	16:9
Pixel Pitch [mm]	0.494
Brightness (without glass) [cd/m ²]	450
Contrast Ratio (typ.)	1200:1
Viewing Angle [°]	178 / 178 (at contrast ratio > 10:1)
Colour Depth [bn]	1.07 (8bit + FRC)
Response Time (typ.) [ms]	8 (grey-to-grey)
Supported Orientation	Landscape

Touch

Touch Technology	Infrared
Number of Touches	Real multi-touch up to 20 touches
Touch Method	Finger; Gloves; Stylus dual pen tip (3mm/9mm)
Data Interface	USB 2.0 (full speed) HID; USB powered, plug & play
Accuracy [mm]	+/- 1
Windows Ink	no
Palm Rejection	no
Operating System	Native Multi-Touch: Windows 8.1/10/11, Linux, Android 9.0 or higher, Chrome OS 87 or higher; Single Touch (Default Mouse): Mac OS 10.15/11/12

Glass

Type	Thermal-tempered, anti-glare coating; Zero Bonding
Bonding Gap [mm]	0.8
Thickness [mm]	3.2
Haze Level [%]	3 ~ 8
Hardness [H]	≥ 8

Resolution

Native Resolution	3840 x 2160			
Supported Resolutions	1024 x 768;	1440 x 900;	3840 x 2160;	720 x 576;
	1280 x 1024;	1680 x 1050;	4096 x 2160;	800 x 600
	1280 x 960;	1920 x 1080;	640 x 480;	
	1360 x 768;	1920 x 720;	720 x 480;	

Connectivity

Input Video Analogue	1 x VGA
Input Video Digital	1 x DisplayPort (with HDCP); 1 x USB-C (with HDCP, 65 W); 3 x HDMI (with HDCP)
Input Audio Analogue	1 x 3,5 mm jack
Input Control	1 x RS232; LAN 10Base-T/100Base-TX/1000Base-T
Input Data	4 x USB 3.0 (Type-A)
Input Touch	1x USB Type-C (shared with video input); 2 x USB 3 (Type-B)
Output Video Digital	1 x HDMI (loop through: HDMI, DP, OPS slot-in PC, Android SoC)
Output Audio Analogue	1 x 3,5 mm jack
Output Audio Digital	1 x SPDIF
Input Detect	Last

Open Modular Intelligence

OPS Slot	Slot Technology: Open pluggable specification (NEC / Intel OPS standard)
OPS Max. Current / Power Consumption [A / W]	4.74 / 90

Electrical

Power Consumption [W]	260 Eco (shipment setting), 500
Power Savings Mode [W]	< 0.5 (ECO Standby); < 2 (Networked Standby)
Power Supply	100-240 V AC; 50/60 Hz

Environmental Conditions

Operating Temperature [°C]	+5 to +35
Operating Humidity [%]	20 to 80

Mechanical

Dimensions (W x H x D) 1,967.9 x 1,170.2 x 87.1

[mm]

Weight [kg] 65

Bezel Width [mm] 21.9 (left, right and top); 53.2 (bottom)

VESA Mounting [mm] 4 holes; 800 x 600 (FDMI); M8

Packaging Dimensions 2,160 x 1,310 x 225
(W x H x D) [mm]

Packaging Weight [kg] 81

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

Embedded Computing

System Version Android 11

CPU Arm Cortex-A55 (Quad-Core)

System Memory 4G RAM

Internal Storage 16GB ROM

Android Features Hide compass and side bar

Built-in Applications File Manager; Input Select; Setting; Web Browser; Whiteboard; Wireless Screen Sharing - E-Share

Built-in Tools Annotation overlay mode; Calculator; Calender; Compass for shortcut button; Screen recorder; Timer; Voting Kit

Bluetooth

Bluetooth 4.2 compliant, supported protocols: A2DP, AVRCP, GATT, HID, HSP, HFP

Wireless LAN

WLAN IEEE802.11ac/n/a/g/b compliant

Available Options

Accessories Pen software license extension PN-SU01; Soundbar (PN-ZCMS1); Trolley (PD02MHA-CB86; PD03MHA-CB86); USB-C cable (USB-C 5M); Wall mount (SF680P)

OPS Slot Recommended: OPS Enterprise Pro (100016118), OPS Enterprise Ultra (100016122)

Regulatory

Safety and Ergonomics CE; FCC; RCM; REACH; RoHS; UKCA; UL/C-UL

Green Features

Energy Efficiency ECOMode; LED backlight

3rd Party Certifications

Barco ClickShare	Tested compatible for Barco ClickShare (Conference)
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Additional Features

Special Characteristics	CEC Support; HDMI ARC; NaViSet Administrator 2 - free download; Powered USB Port (65 W)
Audio	Integrated Speakers (15 W + 15 W)
Shipping Content	1x 300 cm USB Cable; 2 x Passive Stylus; 2x AAA batteries; Blank Sticker; Bracket for Camera; Cable Clamps; Display; Pen Tray; Power Cable; Remote Control; User Manual; Wireless Adapter
Warranty	3 years warranty incl. backlight; optional 4. + 5. year warranty extension ¹
Operating Hours	16/7
Remote Management	NEC NaViSet Administrator 2
Security	Disable HW Buttons; Disable IR Functionality; Disable USB and LAN Ports

¹ please refer to terms and conditions of warranty extensions



RCM



CE



RoHS

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