

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

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|---------------|--------------------------------|
| 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

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|-------------------|---|
| 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 |
| Palm Rejection | no |
| Windows Ink | 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

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|----------------|--|
| Type | Thermal-tempered, anti-glare coating; zero-bonding |
| Thickness [mm] | 3.2 |
| Haze Level [%] | 3 ~ 8 |
| Hardness [H] | ≥ 8 |

Resolution

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|-----------------------|--|
| 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

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|----------------------|--|
| 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-B) |

| | |
|-----------------------|--|
| Input Touch | 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

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

Electrical

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| Power Consumption Eco/max. [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

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

Mechanical

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| Dimensions (W x H x D) [mm] | 1,967.9 x 1,170.2 x 87.1 |
| 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 (W x H x D) [mm] | 2,160 x 1,310 x 225 |
| Packaging Weight [kg] | 81 |
| Material | Aluminum alloy (front side); metal (back side) |

Embedded Computing

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|-----------------------|---|
| Built-in Applications | File Manager; Input Select; Setting; Web Browser; Whiteboard; Wireless Screen Sharing - E-Share |
| Built-in Tools | Calculator; Calender; Screen recorder; Timer; Voting Kit |
| System Version | Android 11 |
| CPU | Arm Cortex-A55 (Quad-Core) |
| System Memory | 4G RAM |
| Internal Storage | 16GB ROM |

Bluetooth

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

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| WLAN | IEEE802.11ac/n/a/g/b compliant |
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Available Options

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| 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) |

Additional Features

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|-------------------------|---|
| Special Characteristics | CEC Support |
| Safety and Ergonomics | CE; FCC; RCM; REACH; RoHS; UL/C-UL |
| Audio | Integrated Speakers (15 W + 15 W) |
| Shipping Content | 1x 300 cm USB Cable; 2 x Passive Stylus; 2x AAA batteries; Blank Sticker; 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 |

¹ please refer to terms and conditions of warranty extensions



RCM



CE



RoHS

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