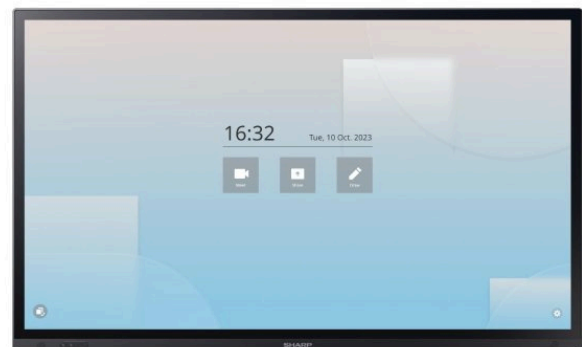


## Sharp PN-LA862 LCD 86" InGlass™ Touch Display

# Datasheet



\*Optional with SDM-L Collaboration



### Safeguarding security and promoting productivity in hybrid meetings

Bringing advanced professional functionality to Enterprise users, the Sharp/NEC LA series safeguards the highest IT security standards whilst supporting maximum choice and flexibility. An Intel™ SDM slot expands the display's customisable capability allowing safe and seamless integration into corporate IT systems, or benefit from pre-installed functionality including Sharp Meeting Launcher for quick access to your favourite apps and VC platforms, FlatFrog Board collaborative whiteboarding software, and AirServer™ for wireless screen sharing.

Featuring InGlass™ M5 premium touch technology, users benefit from the most natural writing experience and advanced interactive functionality. The high brightness output, high haze panel and premium glass coating delivers best readability in well-lit meeting rooms, without distraction from reflections, glare or fingerprints.

The LA series supports orientation any which way, including face up, allowing table-top, tilted desk or multi-board side-by-side installations for up to three displays. Users can connect their own notebook, safely and securely via a USB-C connection, providing best versatility in hybrid meetings and spontaneous collaborative interactions.

The LA series integrates elegantly and seamlessly into high-end meeting rooms and boardrooms providing trusted long-life performance whilst making minimal energy demands.

## Benefits

**Most natural writing experience** – InGlass™ M5 premium touch system supports patented pressure sensitivity using passive pens as well as Windows Ink and palm rejection.

**Secure by design** – the non-Android platform with additional security features meets the highest IT security standards.

**Optional Windows based Intel SDM slot-in PC** – driving unlimited versatility with powerful integrated computing. Includes Sharp's Meeting Launcher for quick and easy access to your apps offering a secure and locked environment.

**Increase your productivity** – benefit from a free one-year license for FlatFrog Board for Rooms. FlatFrog Board whiteboard software makes hybrid work easy and productive for everyone.

**Energy efficiency** – built-in functionality including an ambient light sensor, human presence detection and eco modes help to reduce power consumption.

## Product Information

|               |                                |
|---------------|--------------------------------|
| Product Name  | Sharp PN-LA862                 |
| Product Group | LCD 86" InGlass™ Touch Display |
| Order Code    | 60005935                       |

## Display

|                                 |   |
|---------------------------------|---|
| Panel Technology                | IPS with Direct LED backlights                              |
| Screen Size [inch/cm]           | 86 / 217.4  |
| Aspect Ratio                    | 16:9  |
| Brightness [cd/m <sup>2</sup> ] | 500 (LCD panel without glass); 450 (product)                |
| Contrast Ratio (typ.)           | 1200:1  |
| Viewing Angle [°]               | 178 horizontal / 178 vertical (typ. at contrast ratio 10:1) |
| Colour Depth [bn]               | 1.073 (10bit)   |
| Colour Gamut                    | 68% of DCI  |
| Response Time (typ.) [ms]       | 8   |
| Panel Refresh Rate [Hz]         | 60  |
| Supported Orientation           | Face Up <sup>1</sup> ; Landscape; Portrait                  |

## Touch

|                            |   |
|----------------------------|---|
| Touch Technology           | InGlass™ M5   |
| Number of Touches          | Real multi-touch up to 20 touches   |
| Response Time [ms]         | ≤ 15  |
| Touch Method               | Finger; Gloves; Stylus (≥ 2 mm)   |
| Supported Operating System | Native Multi-Touch: Windows 7, Windows 8, Windows 10, Linux, Android;<br>Default Mouse: Windows XP, Windows Vista, Mac OS X |

|                |         |
|----------------|---------|
| Data Interface | USB-HID |
| Accuracy [mm]  | < 1     |
| Windows Ink    | yes     |
| Palm Rejection | yes     |

## Glass

|                |   |
|----------------|---|
| Type           | Premium toughened glass, anti-glare coating; Zero Bonding |
| Thickness [mm] | 3   |
| Haze Level [%] | 4 ~ 8   |
| Hardness [H]   | ≥ 8   |

## Resolution

|                       |   |  |  |   |
|-----------------------|---|--|--|---|
| Native Resolution     | 3840 x 2160   |  |  |   |
| Supported Resolutions | 1024 x 768;<br>1280 x 1024;<br>1280 x 720;<br>1360 x 768; | 1366 x 768;<br>1400 x 1050;<br>1440 x 900;<br>1600 x 1200; | 1920 x 1080;<br>1920 x 1200;<br>1920 x 2160;<br>2560 x 1440; | 2560 x 1600;<br>3840 x 2160;<br>4096 x 2160;<br>7680 x 4320 |

## Synchronisation Rate

|                            |          |
|----------------------------|----------|
| Horizontal Frequency [kHz] | 15 - 135 |
| Vertical Frequency [Hz]    | 23 - 76  |

## Connectivity

|                       |  |
|-----------------------|--|
| Input Video Digital   | 1 x DisplayPort (with HDCP); 1 x USB-C (with HDCP, 65 W); 2 x HDMI (with HDCP)                           |
| Input Audio Digital   | 1 x DisplayPort; 2 x HDMI  |
| Input Control         | LAN 100Mbit; RS232   |
| Input Data            | 1 x USB 2.0 (Powered 5V/2A, Firmware Updates); 1 x USB 2.0 Type-B (Downstream); 2 x USB 2.0 (Downstream) |
| Input Touch           | 1 x USB 2 (Type-B); 1x USB Type-C (shared with video input)  |
| Output Video Digital  | 1 x DisplayPort (loop through: DisplayPort, SDM slot-in PC)  |
| Output Audio Analogue | 1 x 3,5 mm jack  |
| Output Control        | 1 x LAN 100Mbit  |
| Input Detect          | Custom; First; Last  |
| PiP/PbP               | Dual-Split; Quad-Split; scalable picture size  |

## Open Modular Intelligence

|            |   |
|------------|---|
| Intel® SDM | accepts Intel® Smart Display Modules Large and Small up to 66 W |
|------------|---|

## Sensors

|                      |  |
|----------------------|--|
| Ambient Light Sensor | Integrated, triggered actions programmable             |
| Temperature Sensor   | Integrated, 3 sensors, triggered actions programmable  |
| Presence Sensor      | H angle left: 60°, H angle right: 60°, Distance: 3.6 m |

## Electrical

|                        |                                  |
|------------------------|----------------------------------|
| Power Consumption [W]  | 275 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 +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]           | 1,965.4 x 1,163.9 x 86.5                 |
| Weight [kg]                           | 71.5                                     |
| Bezel Width [mm]                      | 32.3 (bottom); 4.8 (left, right and top) |
| VESA Mounting [mm]                    | 4 holes; 600 x 400 (FDMI); M8            |
| Ingress Protection                    | IP6x (front); IP2x (back)                |
| Packaging Dimensions (W x H x D) [mm] | 2,095 x 1,310 x 225                      |
| Packaging Weight [kg]                 | 87                                       |
| Material                              | Metal                                    |

## Available Software

|                        |   |
|------------------------|---|
| Free Software Included | FlatFrog Board for Rooms (1 year) - free download |
|------------------------|---|

## Available Options

|             |   |
|-------------|---|
| Accessories | Pen software license extension PN-SU01; Trolley (L20PNSR780MEU, PD02MHA, PD03MHA); USB-C cable (USB-C 5M); Wall mount (L20PNWALL90EU) |
|-------------|---|

## Regulatory

|                       |  |
|-----------------------|--|
| Safety and Ergonomics | CE; EMC Class B; Energy Star 8; FCC Class B; PSB; RCM; RoHS; SASO; UKCA; UL/C-UL |
| Pixel Failure Class   | ISO 9241-307, Class 1  |
| Resistance to Fire    | Metal backcover, plastic material certified acc. to UL94-5VB                     |

## Green Features

|                      |   |
|----------------------|---|
| Energy Efficiency    | Ambient light sensor; ECOMode; Human sensor; LED backlight; Local dimming |
| Ecological Standards | EnergyStar 8.0  |

## 3rd Party Certifications

|                  |   |
|------------------|---|
| Cisco            | Verified for Cisco Collaboration Devices            |
| Barco ClickShare | Tested compatible for Barco ClickShare (Conference) |
| Crestron         | Certified for Crestron CCV2 and XiO Cloud           |

## Additional Features

|                         |   |
|-------------------------|---|
| Special Characteristics | CEC Support; Clone Settings; Display Browser Control; HDMI ARC; HTTP Server; NaViSet Administrator 2 - free download; Powered USB Port (65 W)                                       |
| Audio                   | Integrated Audio Amplifier (for optional speakers up to 2 x 15 W); Integrated Speakers (10 W + 10 W)  |
| Shipping Content        | 1x 300 cm USB Cable; 2 x Passive Stylus; 2x AAA batteries; Blank Sticker; Bracket for Camera; Bracket for Mini PC; Cable Clamps; Display; Power Cable; Remote Control; Setup Manual |
| Warranty                | 3 years warranty incl. backlight; additional services available; optional 4. + 5. year warranty extension <sup>2</sup>  |
| Operating Hours         | 24/7  |
| External Control        | Crestron V2; HDMI CEC; HTTP Browser; Scheduled Timer  |
| Remote Management       | Automated Email Alerts; NEC NaViSet Administrator 2   |
| Security                | Disable HW Buttons; Disable IR Functionality; Disable USB and LAN Ports; Emergency Notification; IEEE802.1X (LAN)   |

<sup>1</sup> adjusted usage conditions for face up/down installations, please refer to operational guidelines or contact our support

<sup>2</sup> please refer to terms and conditions of warranty extensions



CE



RoHS



FCC Class B



RCM

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