LCD 65" Infrared Touch Display

Sharp PN-LC652

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.

Specifications

Product Information

Product Name
Sharp PN-LC652

Product Group
LCD 65" Infrared Touch Display

Order Code
PNLC652

Display

Panel Technology
IPS with Direct LED backlights

Active Screen Area (W x H) [mm]
1,428.5 x 803.5

Screen Size [inch/cm]
65 / 163.9

Aspect Ratio
16:9

Pixel Pitch [mm]
0.372

Brightness (without glass) [cd/m²]
450

Contrast Ratio (typ.)
1200:1

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)

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

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

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]
180 Eco (shipment setting)

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) [mm]
1,511.6 x 917.9 x 85.9

Weight [kg]
38.5

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

VESA Mounting [mm]
4 holes; 600 x 400 (FDMI); M8

Packaging Dimensions (W x H x D) [mm]
1,660 x 1,010 x 225

Packaging Weight [kg]
49

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 – Miracast, Airplay & Google cast, EShare

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

Available Options

Accessories
Pen software license extension PN-SU01; Soundbar (PN-ZCMS1); Trolley (PD02MHA, PD03MHA, L20PNSR780MEU); USB-C cable (USB-C 5M); Wall mount (SF680P, L20PNWALL90EU)

OPS Slot
Recommended: OPS Enterprise Pro, OPS Enterprise Ultra

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)

Q-Sys
Q-Sys Plug-in

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
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

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