### Specifications

#### Dimensions (W x D x H) (approx.) (display only)

<table>
<thead>
<tr>
<th>Model</th>
<th>PN-L851H</th>
<th>PN-L751H</th>
<th>PN-L651H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>76 13/16&quot; × 3 7/8&quot; × 45 1/4&quot;</td>
<td>67 7/8&quot; × 3 7/8&quot; × 40 3/16&quot;</td>
<td>59 1/8&quot; × 3 7/8&quot; × 35 3/16&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>170 lbs</td>
<td>135 lbs</td>
<td>106 lbs</td>
</tr>
</tbody>
</table>

#### Conditions

- **Operating Humidity**: 20% to 80% RH (no condensation)
- **Power Consumption**: 310 W (PN-L851H), 330 W (PN-L751H), 270 W (PN-L651H)
- **Power Supply**: 100V – 240 V AC, 50/60 Hz
- **Mounting**:
  - 4 points, 600 × 400 mm pitch, M6 screw
  - 4 points, 400 × 400 mm pitch, M6 screw

#### LCD Panel

- **Active Screen Area (W x H) (approx.)**
  - PN-L851H: 35 3/16" × 20 20 points
  - PN-L751H: 35 3/16" × 20 20 points
  - PN-L651H: 35 3/16" × 20 20 points

- **Viewing Angle (H/V)**
  - Horizontal: 170°
  - Vertical: 170°

- **Max. Brightness (average)**: 350 cd/m²
- **Pixel Pitch (H x V)**: 0.488 × 0.488 mm
- **Max. Display Colors (approx.)**: 1.07 billion colors
- **Active Screen Area (W x H) (approx.)**: 3,840 × 2,160 pixels

#### Power Management

- **Plug & Play**: Compliant with version 4.1 (A2DP/AVRCP/GATT/GAP/HID/HOGP)
- **Synchronization**: VESA DDC2B
- **Computer Input**:
  - Video: Analog RGB (0.7 Vp-p) [75Ω], HDMI™, DisplayPort™
  - Multi Touch

#### Input Terminals

- **Input Terminals**
  - PC analog: Mini D-sub 15-pin × 1, HDMI (HDCP2.2 compatible, HDR10 supported) × 2, 3.5 mm-diameter mini stereo jack × 1

#### Output Terminals

- **Output Terminals**
  - RS-232 × 1, DisplayPort (HDCP compatible) × 1

#### External Speaker Output

- **Built-in**: 10 W + 10 W (6 Ω)
- **Expansion Slot**: 10 W + 10 W

#### Storage

- **Memory**: 4 GB
- **Controller CPU**: Hexa Core [Arm® Cortex®-A72 processor (dual core) + Arm Cortex-A53 processor (quad core)]
- **USB Port** (2.0-compliant) × 1
- **MicroSD Card Slot** (microSD/microSDHC/microSDXC) × 1
- **LAN Port** (10Base-T/100Base-TX/1000Base-T)
- **Bluetooth**: Compliant with version 4.1 (A2DP/AVRCP/GATT/GAP/HID/HOGP)

#### Display

- **Response Time**: 9.5 ms (grey to grey, avg.)
- **Backlight**: LED, direct lit
- **Resolution**: 3,840 × 2,160 pixels
- **170° Horizontal/vertical separation (TTL: positive/negative)
- **Input/Output Terminals**
  - **Bottom**: USB port × 2, LAN port × 1
  - **Side**: USB port × 2, LAN port × 1

#### Interactive Display Systems

- **AQUOS BOARD®**: AQUOS BOARD® Interactive Display Systems
- **Interactive Display Systems**: AQUOS BOARD® Interactive Display Systems
- **PN-L651H**: PN-L651H
- **PN-L751H**: PN-L751H
- **PN-L851H**: PN-L851H

#### Accessories

- **Main Accessories**:
  - AC power cord, remote control unit, remote control unit battery (AAA size) × 2, set-up manual, speaker cover × 2, vertical sticker, blank sticker, cable
  - Clamp × 5, camera mount, USB cable, eraser, pen tray, SHARP Pen Software (CD-ROM), touch pen (PN-85TH1 × 2, PN-75TH1/65TH1 × 1), SHARP Display Connect license, Wireless LAN antenna × 2, USB flash drive/microSD card cover, USB flash drive/microSD card cover fixing screw

#### Notes

- *4 Use a commercially available DisplayPort-certified cable. Some video equipment may not be supported.
- *5 exFAT is not supported.
- *6 The AC power cord is an inlet type. The cable is bundled (3 pins).
- *8 Shock resistance: 130 cm

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### SHARP

Be Original.
The PN-L851H/751H/651H AQUOS BOARD interactive display systems are made for show and tell in the digital age. Whatever screen size you choose—85”, 75”, or 65” Class (84 9/16, 74 1/2, or 64 1/2, respectively)—you get pristine 4K Ultra HD resolution. With a pre-installed controller and built-in whiteboard and wireless functionality, they are always ready for a quick meeting. The touchscreen supports up to 20 touch points at a time. You can use either a finger or the bundled touch pen, which gives a Pen-on-Paper® writing experience. Your group collaborations just got more seamless and intuitive.

**Practical Office Technologies**

**Cutting-Edge Panel Technology**

Supporting 4K Ultra HD (3,840 x 2,160) pixel resolution, the LCD panel renders texture and detail of images and small text. From architecture to engineering to graphic arts, these monitors excel in demanding professional settings. The panel boasts new optical technology that uses advanced opto-mechanics and signal processing. It differentiates finger and pen input, so you can write and draw on the screen with intuitive ease. An anti-glare film minimizes fingerprint soiling and reduces reflections. Even in a brightly lit room, onscreen content is easy to read.

**Wireless Connectivity**

Wireless LAN and Bluetooth® compatibility allow wire-free connection to multiple devices—including smartphones, tablets and computers*. No need for tangled wires or conversion adapters. Each device can project images wirelessly to the monitor. You can then capture the wirelessly projected screen and freely add annotations to it using a touch pen.  

*Compatible with Windows® and Android™ operating systems

**Built-in Controller with IWB Launcher**

The PN-L851H/751H/651H interactive displays have a built-in controller with a new IWB Launcher that makes it easy to operate these all-in-one interactive whiteboards. You don’t even need to hook up a dedicated PC. When you start up the main unit, the IWB Launcher is displayed automatically. Simply touch the icons on the screen for instant access to the features you want to use.

**Direct Drawing**

Switch to Direct Drawing to use the LCD monitor like a regular whiteboard. Even for first-time users, this simple write-and-erase function is a breeze to operate. You can also save screen captures as PDF files, either on internal storage or on an external storage device.

**Simultaneous Writing**

The LCD panel recognizes up to 20 touch points, so when inspiration strikes, multiple people* can use their finger or touch pen to add input. Meetings, lessons and brainstorming sessions will come alive.

* With Direct Drawing, only one person at a time can write.

Note: When you use Sharp applications on the built-in controller—including IWB Launcher, Direct Drawing, and Wireless Display—content is displayed at full-HD (1,920 x 1,080) pixel resolution.
Pen-on-Paper Experience

When the tip of the touch pen glides across the screen, it feels just like a pen on paper. No skips or delays. Instead, you get a smooth and responsive digital ink experience. Whether you choose a 2 mm or a 4 mm tip, the easy-grip bundled touch pen gives you a comfortable writing feel. And thanks to the pen’s angular profile, it won’t roll away when you put it on a table.

User-Friendly SHARP Pen Software

The easy-to-launch SHARP Pen Software interface has a menu with smartly arranged icons. These give you easy access to pen settings and other useful functions. Further handy functions* include access to cloud storage, an e-mail address book, sticky notes and bookmarks.

* Availability varies by country/region. For details, please consult your local authorized Sharp dealer or representative.

MFP Connectivity

Scanned documents can be imported directly to SHARP Pen Software from a compatible Sharp MFP. Onscreen image data—including written notes—can be sent to a PC for storage or to an MFP for printing.

Versatile Installation

The PN-L851H/751H/651H interactive displays are designed to match a diverse range of installation needs. They can be installed in either a landscape or a portrait orientation. With a landscape installation, they can be tilted backwards at 45 degrees or between 0 and 20 degrees*.

* There are restrictions on the tiltable angles and other installation conditions. For details, please consult with your local authorized Sharp dealer or representative.

Quad-Screen Display

By connecting four PCs to the monitor, you can simultaneously display four screens at full-HD. You can easily switch between single-screen and quad-screen modes.

SHARP Touch Viewer™ Software

This touch-operated onscreen user interface lets you easily manipulate different types of files, including Microsoft® Office applications, videos and web pages. Files are displayed onscreen as “sheets,” which can be stored in onscreen virtual “drawers.” This convenient software adds a fresh touch to business meetings, in-store installations and more.

SHARP Display Connect™

This software supports multifaceted wireless communication. Onscreen content, including handwritten notes, can be shared simultaneously with up to 50 devices. And devices connected to the monitor can exchange files between themselves.

4K Interactive Signage

Because it handles the demands of 16/7 operation, the PN-L851H/751H/651H interactive displays bring reliable daily performance to retail, office and many other locations.

<System Requirements>

Connected Equipment

<table>
<thead>
<tr>
<th>Hardware</th>
<th>PC/AT compatible machine with USB 2.0 port (CD-ROM drive required for installation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS</td>
<td>Windows® 8.1 (32-bit/64-bit), Windows® 10 (32-bit/64-bit)</td>
</tr>
<tr>
<td></td>
<td>macOS v10.13, macOS v10.14, Google Chrome™ OS v59 or later</td>
</tr>
</tbody>
</table>

Supplied Software (Windows®)

<table>
<thead>
<tr>
<th>CPU</th>
<th>Intel® Core™ i5-6360U or higher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>4 GB or more</td>
</tr>
<tr>
<td>Hard disk</td>
<td>5 GB or more free space (additional space required for saving data)</td>
</tr>
</tbody>
</table>

To use the touch panel, connect the bundled USB cable to the computer. The touch panel operates with the standard driver of each OS. On the Mac, operation is only possible in single-touch mode.

Note: Requires video cables.
**Specifications**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>PN-L851H</th>
<th>PN-L751H</th>
<th>PN-L651H</th>
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<tbody>
<tr>
<td><strong>Power Supply</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>External Expansion Slot</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>USB Hub Function</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Controller</strong> CPU</td>
<td>Hexa Core [Arm Cortex-A72 processor (dual core) + Arm Cortex-A53 processor (quad core)]</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>4 GB</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>32 GB</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>External Interface</strong></td>
<td>LAN port (10Base-T/100Base-T/1000Base-T), microSD card slot (microSD/microSDHC/microSDXC) = 1, USB port (2.0-compliant) = 2,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>USB port (2.0-compliant) = 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Wireless LAN</strong></td>
<td>Compliant with IEEE802.11a/b/g/n</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>USB port (2.0-compliant) × 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Expansion Slot</strong></td>
<td>12V, 2.5 A (power supplied when expanding the functions with an optional port)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Speaker Output</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>100 V ~ 240 V AC, 50/60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>10 W + 10 W (6 Ω)</td>
<td></td>
<td></td>
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<tr>
<td><strong>Environmental Conditions</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>5 °C to 35 °C</td>
<td></td>
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<td><strong>Operating Humidity</strong></td>
<td>20% to 80% RH (no condensation)</td>
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<td><strong>Weight (approx.)</strong></td>
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**Input/Output Terminals**

- **Input Terminals**
  - PC analog Mini-D-sub 15-pin + 1, HDMI (HDCP2.2 compatible, HDR10 supported) + 2, 3.5 mm-diameter mini stereo jack + 1, DisplayPort (HDCP compatible) + 1, RS-232 + 1

- **Output Terminals**
  - 3.5 mm-diameter mini stereo jack + 1, DisplayPort (HDCP compatible) + 1

**Dimensions**

**PN-L851H**

**PN-L751H**

**PN-L651H**

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1. There are restrictions on the tiltable angles and other installation conditions. For details, please consult with your local authorized Sharp dealer or representative.
2. Brightness depends on input mode and other picture settings. Brightness level will decrease slightly over the lifetime of the product. Due to the physical limitations of the equipment, it is not possible to maintain a precisely constant level of brightness.
3. Use a commercially available connection cable for PC and other video connections.
4. AC power cord, remote control unit, remote control unit battery (AAA size) + 2, set-up manual, speaker cover + 2, vertical sticker, blank sticker, cable clamp + 5, camera mount, USB cable, eraser, pen tray, SHARP Pen Software (CD-ROM), touch pen (PN-85TH1 × 2, PN-75TH1/65TH1 × 1), SHARP Display Connect license, Wireless LAN antenna × 2, USB flash drive/microSD card cover, USB flash drive/microSD card cover fixing screw

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