Sharp AQUOS BOARD™ Interactive Display Systems — Smooth, Intuitive and Made for Sharing
The Sharp AQUOS BOARD™ PN-L703A/703B/603A/603B are designed for smooth and effortless communication in a wide range of contexts. Their highly responsive touch pens allow several people to write on the same screen at the same time. And Sharp’s Touch Display Link software enables multifaceted wireless communication. Whether in the boardroom or the classroom, Sharp changes the way you communicate.

**Simple, Intuitive Operation Lets You Focus on Interacting**

### Simultaneous Writing

Recognizing up to 10 points of contact, the PN-L703A/703B and PN-L603A/603B multi-touch LCD monitors allow up to four people to write on the screen at the same time using touch pens or fingers. Participants can take an active part in meetings, brainstorming sessions, classroom interactions, and more. Discussions and presentations become platforms for effective and lively exchanges of opinions.

### Smooth, Highly Responsive Touch Pen

The dedicated touch pen with function buttons\(^1\) is so smooth and light that using it is like writing on paper. A pressure sensor at the tip of this slim and lightweight pen lets you write with high precision and with an effortless and uninterrupted flow.

### User-Friendly Pen Software Interface

Using a touch pen, you can easily launch and display the Pen Software user interface—a menu comprising smartly arranged icons that provide easy access to pen settings and functions. Each touch pen has its own dedicated menu, which can be displayed even when up to four people are writing on the screen at the same time. Pen settings such as color and line thickness can be set for each touch pen (with function buttons).

### Handwriting Recognition

These LCD monitors feature a handwriting recognition\(^3\) function for converting selected onscreen handwriting into standard text. This convenient function allows you to utilize onscreen content to make neat and legible minutes of your meetings.

3 Works with languages supported by Pen Software.

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**Work Smarter with Touch Display Link**

Touch Display Link 2.0\(^4\) software supports effective and multifaceted communication. Onscreen content—including handwritten notes and drawings made in real time—can be viewed simultaneously on the AQUOS BOARD display and mobile devices\(^5\) such as PCs, tablets, and smartphones. Touch Display Link facilitates interactive presentations, lively discussions, and paperless meetings in both business and educational settings.

4 Number of connectable mobile devices depends on the following conditions.
  - LCD monitors
    - PN-L703A/603A used with pre-installed software: Max. 20
    - PN-L703A/603A/703B/603B used with bundled software CD-ROM: Max. 50
  - OS — Windows® 7: Max. 20; Windows® 8/8.1: Max. 50

5 OS requirements:
  - Smartphones: Android, iOS
Quick Startup (PN-L703A/603A)

The whiteboard function on the PN-L703A/603A can start up quickly at a press of the power button, so that meetings get underway without delay.

Note: When booting the LCD monitor from power off status (power turned off using the power button on the monitor or remote control)

Touch-Operated Onscreen Display

Pressing the Touch Menu button displays an onscreen menu that lets you easily switch input sources, change volume level, or turn the touchscreen function on and off without using a remote controller.

Minimize Glare and Fingerprints

Protecting the screen is an anti-glare film that helps work to reduce glare and reflections and minimize fingerprint soiling on the glass.

MFP Connectivity

Documents and images scanned from a color-scan-capable Sharp MFP can be imported directly to the Sharp Pen Software for display on the AQUOS BOARD system. For added convenience, image data shown onscreen—including notations—can be saved to a PC or sent directly to an MFP for printout.

A Wealth of Input/Output Terminals

The PN-L703A/703B and PN-L603A/603B come standard-equipped with a wealth of input/output terminals—on the side and the bottom of the monitor—to enable easy connection with a wide variety of equipment. This array of terminals includes three HDMI ports, two D-sub ports, two DisplayPort™ terminals (one input, one output), and two touchscreen-supporting USB ports. One of the USB ports can be assigned to a regularly connected PC, such as a host PC used to operate the LCD monitor. The other USB port facilitates temporary connection to another PC, such as one used by a meeting participant. This allows easy PC connection without the need to switch the USB cable.

Feature Comparison

<table>
<thead>
<tr>
<th>Feature Comparison</th>
<th>PN-L703A/603A</th>
<th>N-L703B/603B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quick Startup</td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Pen Software¹</td>
<td>(pre-installed)</td>
<td>(bundled; user installed)</td>
</tr>
<tr>
<td>Touch Pen</td>
<td>(1 pen / adaptor set)</td>
<td>(optionally available)</td>
</tr>
<tr>
<td>with function buttons</td>
<td>•</td>
<td>• (1 pen)</td>
</tr>
<tr>
<td>w/o function buttons</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Touch Display Link³</td>
<td>(pre-installed / bundled; user installed)</td>
<td>(bundled; user installed)</td>
</tr>
</tbody>
</table>

¹ Standard feature
² Feature available under conditions indicated in parentheses.
³ For details, see the section on Touch Display Link.

Touch Display Link enables the following interactive functions on the AQUOS BOARD display and mobile devices connected via wireless LAN:
- sharing of onscreen content
- transfer of files
- interactive onscreen writing and drawing
- remote control of the AQUOS BOARD display from mobile devices

Up to 50 mobile devices can be connected simultaneously.

Files can be exchanged between mobile devices even if they are not connected to the AQUOS BOARD display.

Users can capture onscreen images and save them on their mobile devices to make personally annotated memos (personal memo).

Touch Display Link also connects two AQUOS BOARD interactive display systems on the same network (intranet, VPN, etc.) to enable larger-scale interactive communications.
Specifications

**Model Name**
- PN-L703A
- PN-L703B
- PN-L603A
- PN-L603B

**Installation**
- Landscape

**LCD Panel**
- 70-inch-class (69 1/16-inch diagonal) UFA1 LCD
- 60-inch-class (60 1/16-inch diagonal) UFA LCD

**Max. Resolution**
- 1,920 x 1,080 pixels

**Max. Display Colors (approx.)**
- 1.06 billion colors

**Pixel Pitch (H x V)**
- 0.802 x 0.802 mm

**Max. Brightness (average)1**
- 300 cd/m²

**Contrast Ratio**
- 3,000 : 1

**Viewing Angle (H/V)**
- 160°/160° (CR ≥ 10)

**Active Screen Area (W x H) (approx.)**
- 63 1/16" x 35 5/8"

**Response Time**
- 6 ms (gray to gray, avg.)

**Backlight**
- LED, edge lit

**Touchscreen**
- Touch Technology: IR (infrared blocking detection method)
- PC Connection Port: USB 2.0 type B x 2
- Power Supply: Supplied from main unit
- Multi-Touch: 10 points
- Protection Glass: Thickness: Approx. 3.4 mm1 Shock resistance: 130 cm²
- Thickness: Approx. 3.0 mm1 Shock resistance: 130 cm²

**Touch Pen**
- Communication: Wireless communication method
- Function Button: Yes
- Whiteboard Function: Built-in

**Computer Input**
- Video: Analog RGB (0.7 Vp-p) [75Ω], DisplayPort 1.1a
- Synchronization: Horizontal/vertical separation (TTL: positive/negative), Sync on green (D-sub 15-pin only), Composite sync (TTL: positive/negative)
- Plug & Play: VESA DDC2B
- Power Management: VESA DPM

**Video Color System**
- NTSC (3.58 MHz), PAL, SECAM

**Input Terminals1**
- PC analog: Mini D-sub 15-pin x 2, HDMI (HDCP and 1080p compatible, PC/Audio signal compatible) x 3, 3.5 mm-diameter mini stereo jack x 2, Video x 1, Component video x 1, DisplayPort (HDCP compatible, PC signal compatible) x 1

**Output Terminals2**
- 3.5 mm-diameter mini stereo jack x 1, DisplayPort (HDCP compatible) x 1

**Input/Output Terminals**
- Controller2: USB Type A x 4, LAN port 10Base-T/100Base-TX x 1
- Speaker Output: Built-in 10 W + 10 W, External 10 W + 10 W (6Ω)

**Mounting**
- VESA (4 points), 400 x 200 mm pitch, M6 screw

**Power Supply**
- 100V – 240V AC, 50/60 Hz

**Power Consumption**
- 250 W
- 225 W
- 210 W
- 185 W

**Environmental Conditions**
- Operating Temperature: 5°C to 35°C
- Operating Humidity: 20% to 80% RH (no condensation)

**Dimensions (W x D x H) (approx.) (display only)**
- 64 1/16" x 3 1/8" x 3 1/16" (1,670 x 92 x 83.5 mm)
- 56 1/16" x 3 1/16" x 3 1/16" (1,437 x 82 x 83.5 mm)

**Weight (approx.)**
- 134.5 lbs
- 130.1 lbs
- 105.9 lbs
- 101.5 lbs

**Main Accessories**
- AC power cord, remote control unit, batteries (AA size x 2), set-up manual, blank sticker, cable clamps x 5, camera mount, USB cable (3.0 m), eraser, pen tray, Touch pen (with function button), pen adaptor, Touch pen battery (AA size), Touch Display Link 2.0 software CD-ROM
- Touch pen (without function button), Touch Display Link 2.0 software CD-ROM

**Windows® PC System Requirements**
- PC: PC/AT compatible machine with USB 2.0 port and screen resolution of 1,920 x 1,080 (CD-ROM drive required for installation)
- CPU: Intel® Celeron® 1.6GHz, or AMD Sempron™ 1.6GHz or higher (Int3® Core™ 2 Duo 2.4GHz or higher recommended)
- OS: Windows® 7 (32-bit/64-bit), Windows® 8 (32-bit/64-bit), Windows® 8.1 (32-bit/64-bit)
- Memory: 2GB or more
- Hard disk: 200GB or more free space (additional space required for saving data)

**Options**
- PN-ZL01 : Touch Pen and Touch Pen Adaptor
- PN-ZL02 : Touch Pen

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1 UFA stands for Ultraviolet-induced Multi-domain Vertical Alignment, a photo-alignment technology that ensures uniform alignment of liquid crystal molecules. 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. Including AG film on the front and AR film on the back. 3 Including AG film on the front and AR film on the back. 4 Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its center. 5 Use a commercially available connection cable via mini D-sub 15-pin jack. 7 For connecting keyboard, mouse, and USB memory device.

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