

**NEW**

# AQUOS BOARD® PN-C805B/705B Interactive Display Systems

A Feature Packed Solution for the Office or Classroom



January 2017  
SHARP Imaging and Information Company of America

**SHARP.**



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A Feature Packed Solution for the Office or Classroom

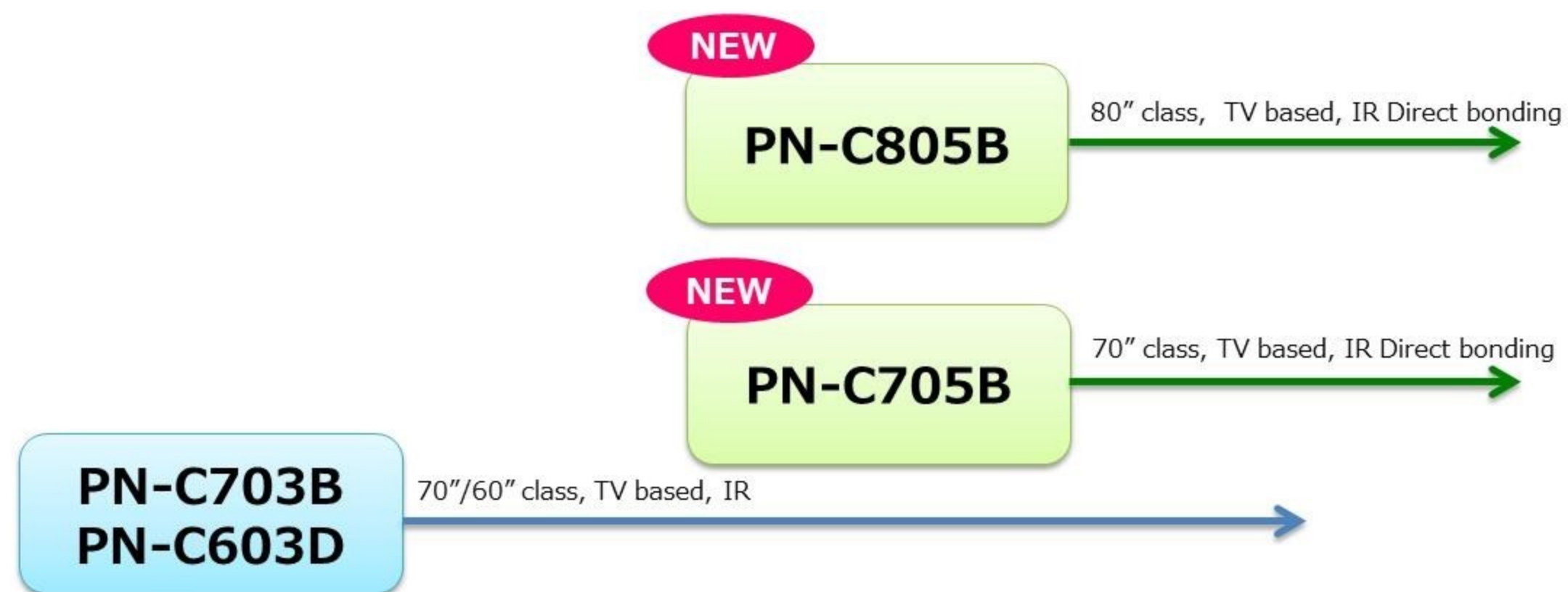


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**SHARP.**



# Positioning of the PN-C805B/705B



# AQUOS BOARD® line-up

	Value Priced	Value Priced +	High Performance	Premium
	<ul style="list-style-type: none"> <li>- 70/60-inch size</li> <li>- IR touch</li> <li>- Touch pen without function buttons</li> <li>- 2 people can write simultaneously</li> <li>- 6 point multi-touch</li> <li>- Others</li> </ul>	<ul style="list-style-type: none"> <li>- 70/60-inch size</li> <li>- IR touch</li> <li>- Touch pen without function buttons</li> <li>- 4 people can write simultaneously</li> <li>- 10 point multi-touch</li> <li>- Direct Bonding Technology</li> <li>- Others</li> </ul>	<ul style="list-style-type: none"> <li>- 70/60-inch size</li> <li>- IR touch</li> <li>- Touch pen with function button</li> <li>- *It is an option and pen without function button is bundled in PN-L703B/603B.</li> <li>- 4 people can write simultaneously</li> <li>- Others</li> </ul>	<ul style="list-style-type: none"> <li>- 80-inch size</li> <li>- Capacitive touch</li> <li>- Touch pen with function buttons</li> <li>- 4 people can write simultaneously</li> <li>- Others</li> </ul>
Standard	 <p>70" PN-C703B 60" PN-C603D</p>	 <p>80" PN-C805B 70" PN-C705B</p>	 <p>70" PN-L703B 60" PN-L603B</p>	 <p>80" PN-L803C</p>
Wireless			 <p>70" PN-L703W 60" PN-L603W</p>	

# Precise Feel – Direct Bonding

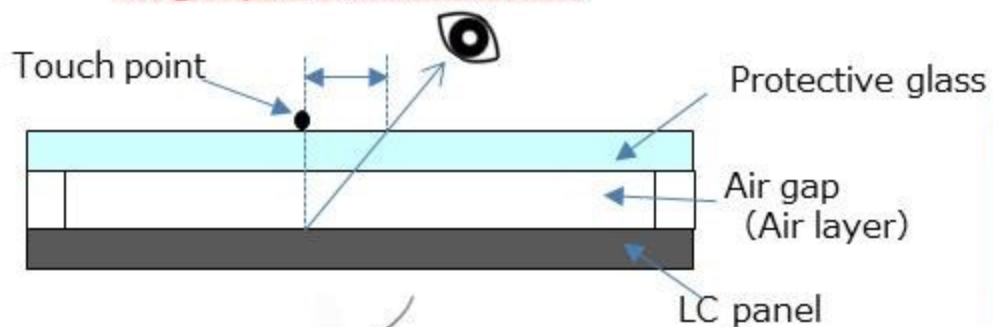
## Direct Bonding Structure and Advantages

Direct bonding: Technique for bonding LCM (liquid crystal module) and protective glass

- Improved Touch Input by Reducing Parallax
- Industry's First Direct Bonding for IR

### Previous Structure (PN-C703B)

Larger parallax difference

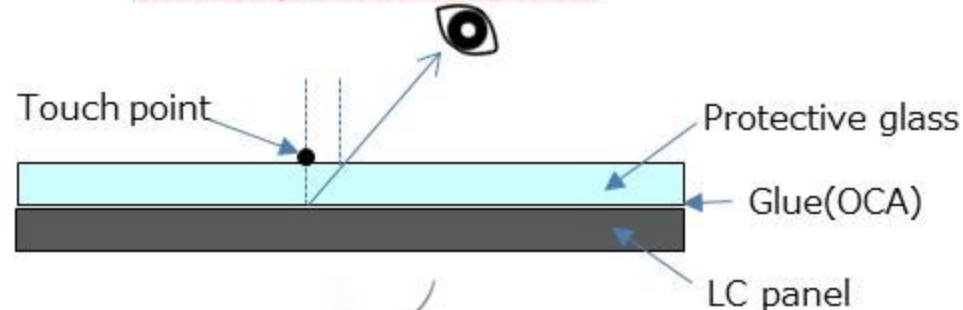


**Parallax 7.9mm**

Protective glass	3.2mm
Glass surface film	0.1mm
Glass back film	0.1mm
Air gap	4.5mm
<b>Total</b>	<b>7.9mm</b>

### Direct Bonding (PN-C805B/705B)

Smaller parallax difference



**Parallax 3.3mm**

Protective glass	3.0mm
Glass surface film	0.1mm
Adhesive (OCA)	0.2mm
<b>Total</b>	<b>3.3mm</b>

**Parallax 58% down**

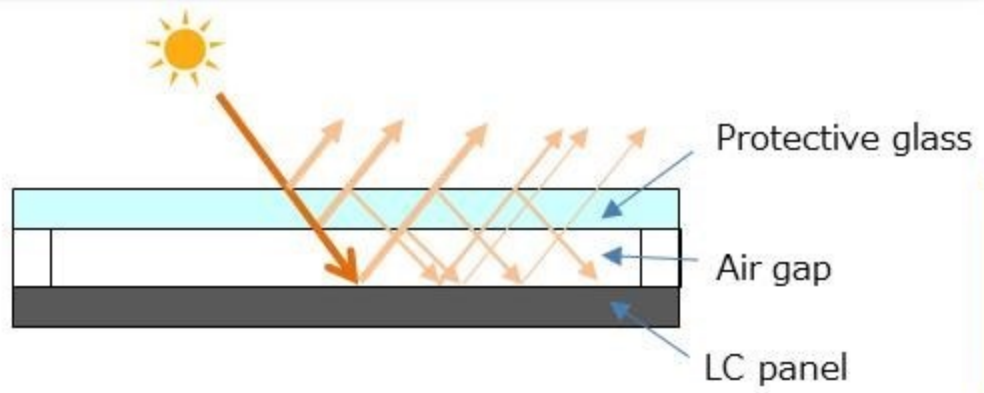
# Precise Feel – Direct Bonding

## Direct Bonding Structure and Advantages

Direct bonding: Technique for bonding LCM (liquid crystal module) and protective glass

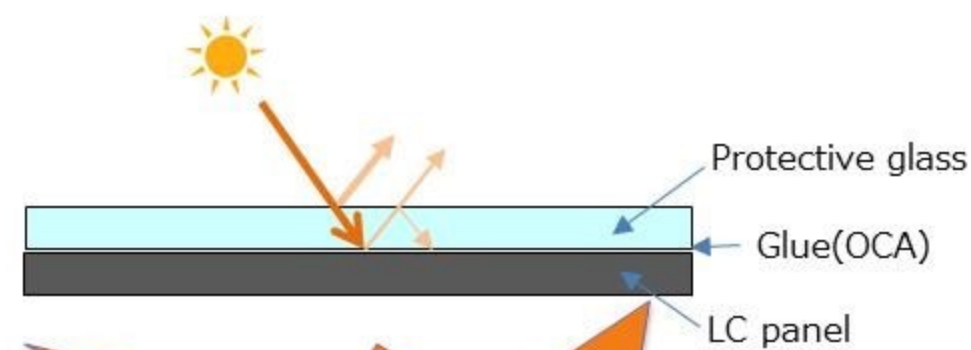
**Improved Visibility by Suppressing Reflection and Refraction between LC Panel and Protective Glass**

### Previous Structure (PN-C703B)



Reflection/refraction are increased due to air gap

### Direct Bonding (PN-C805B/705B)



**Reflection and refraction are minimized**

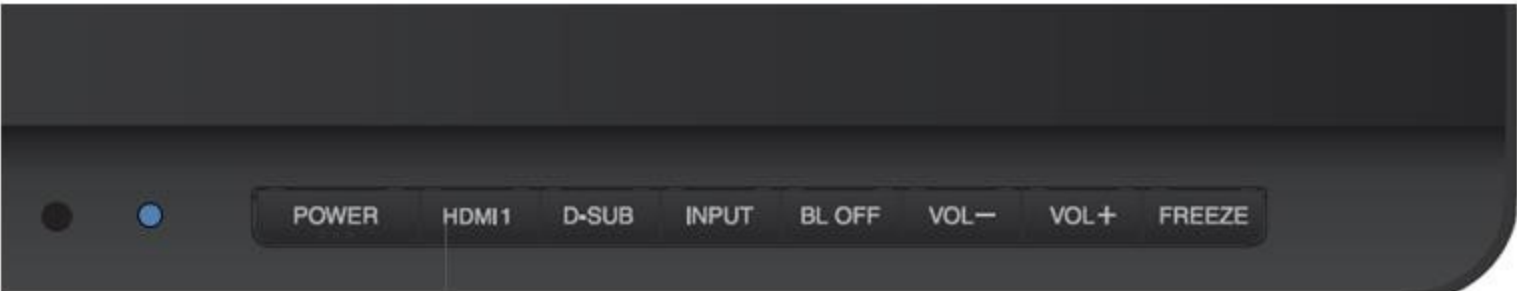


# Direct Operation Button

Improved Operability with Operation Buttons at Bottom-right of Front Bezel



- Easy-to-push sized buttons
- Upward angled buttons improve visibility



- Operation button specifications**
- Power : Power ON/OFF (Standby)
  - HDMI1 : Switch input to HDMI1 directly
  - D-SUB : Switch input to PC(D-Sub) directly
  - INPUT : Switch to input switch mode, when cursor selection is down
  - BL OFF : Only backlight is OFF
  - VOL - : Volume down
  - VOL + : Volume up
  - FREEZE : Temporary standstill of display screen

# Direct Operation Button

## One-touch Operation Buttons for Switching Input, Backlight-off, and Freeze



### HDMI1, D-sub

- Directly switching input between HDMI1 and D-sub
- One-touch operation button makes it easier to switch input between multiple connected devices

### BL OFF

- Pressing "BL OFF (backlight off)" button, display screen will black out, and pressing any key turns backlight on instantly (This is faster than recovering from stand-by mode)
- Convenient to turn off backlight temporarily during breaks for environmental-friendly operation

### FREEZE

- Pressing "FREEZE" button, display screen will freeze temporarily
- e.g.) Convenient for classroom: Teachers can work on other jobs on their PC while the display screen is frozen so that students can continue working



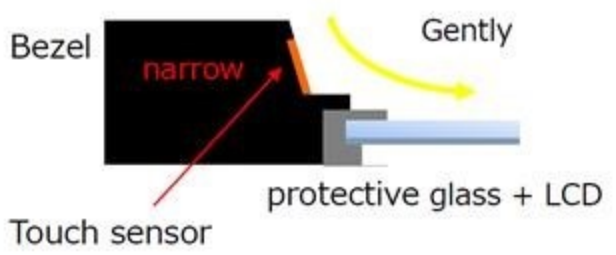
# Stylish Design

## Front View

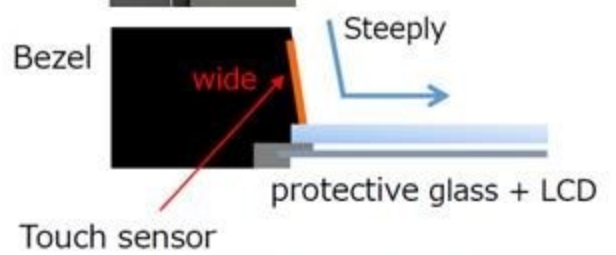


Curved corners are designed with safety in mind

PN-C805B/705B



PN-C703B



## Rear View



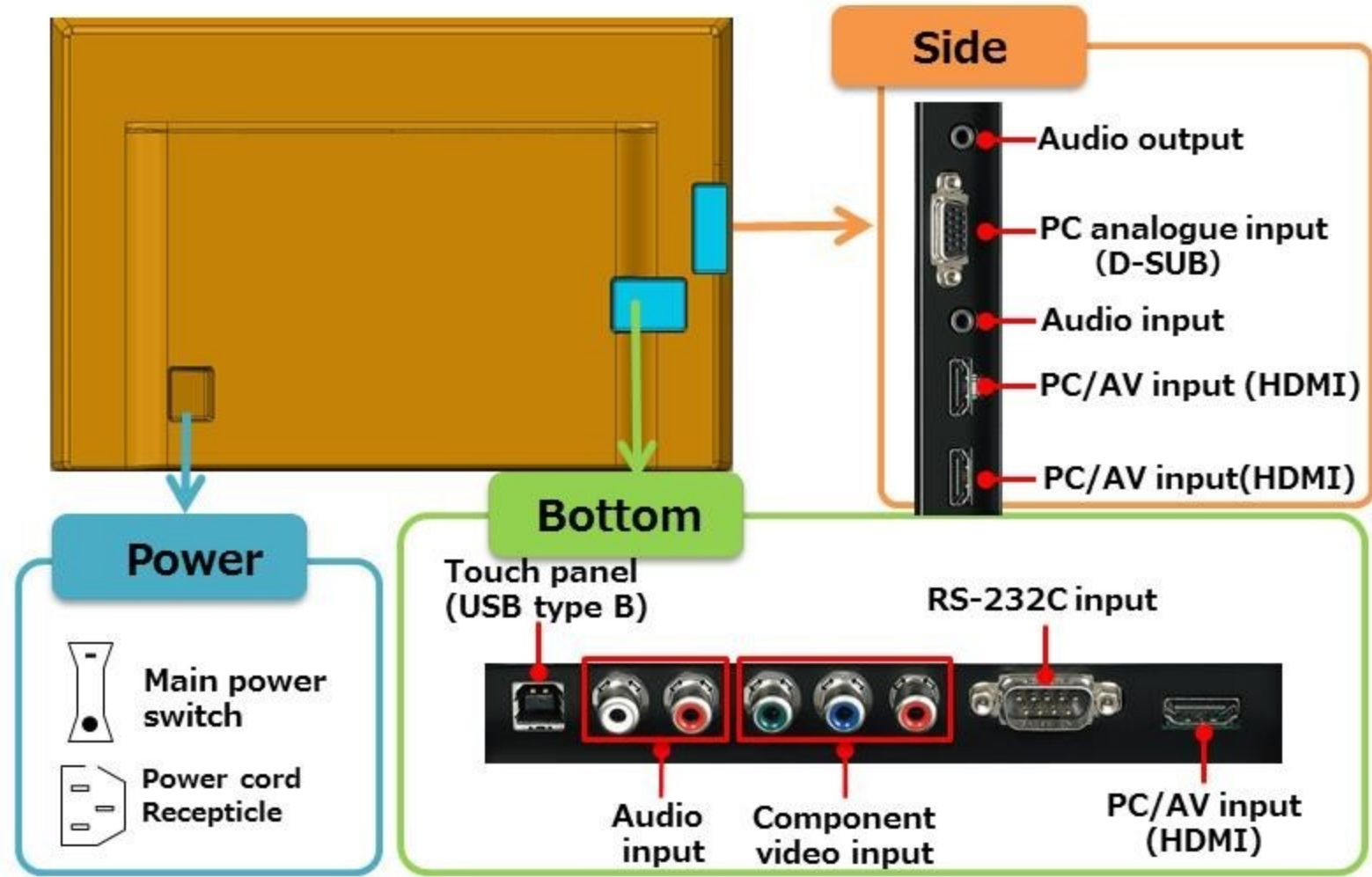
Four removal handles allow for easy and safe transportation

## CUD Compliant

Compliant with the CUD (color universal design) standard\*, which specifies designs that take into account people's differing color perception abilities.

\* Based on regulations established by Color Universal Design Organization (CUDO), a non-profit organization in Japan.

# Input / Output Terminals



	Terminal Name	
<b>Input terminal</b>	HDMI	x3
	D-Sub15P	x1
	Audio(mini jack)	x1
	Component/Video	x1
	RS-232C	x1
	Audio(RCA L/R)	x1
	For touch USB (Type B)	x1
<b>Output terminal</b>	Audio (mini stereo jack)	x1

\* RJ11 / LAN are not supported

# Functional Remote Control

Newly Designed Remote Controller Offers Enhanced Operability

**NEW**



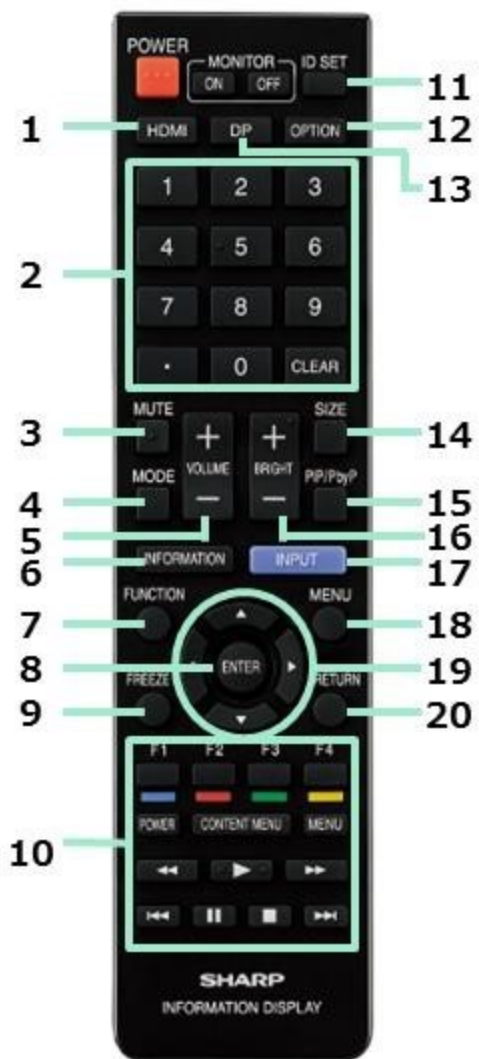
HDMI CEC support

Direct button to switch input mode (HDMI)

FREEZE button to freeze video



# Functional Remote Control



1. **HDMI:** Switch the input mode to HDMI1, HDMI2 or HDMI3.
2. **Numeric input buttons:** When HDMI CEC LINK is set to AUTO, use these buttons to operate the device connected through the HDMI interface.
3. **MUTE:** Turns off the volume temporarily. Press the MUTE button again to turn the sound back to the previous level.
4. **MODE (Picture mode selection):** Each time you press this button, the picture mode changes in the following order. PC→DYNAMIC→DYNAMIC(FIXED)→STANDARD→MOVIE→PC→...
- \* For PC, switch only when the input mode is HDMI1, HDMI2, HDMI3 and D-sub (PC).
5. **VOLUME +/- (Volume adjustment):** Press + or - to display the VOLUME menu and adjust volume.
- \* If you do not press any buttons for about 3 seconds, the VOLUME menu automatically disappears.
6. **INFORMATION:** You can check input signal/terminal (The display automatically disappears after about 5 seconds)
7. **FUNCTION:** Use this to display the FUNCTION menu.
8. **ENTER:** Confirms the setting.
9. **FREEZE:** Freezes the video shown on the monitor. The touch panel remains enabled while the video is frozen and touch actions can be reflected. To cancel, press any button other than the POWER button, the MUTE button, VOLUME + button\* or VOLUME - button. Freeze is also canceled when the input signal changes (switching to no signal, changing the resolution, etc.). \* When MUTE WITH FREEZE is set to OFF.
10. **Buttons for operating the HDMI-connected device:** When HDMI CEC LINK is set to ON, use these buttons to operate the device connected through the HDMI interface.
11. **ID SET:** This is not used with this monitor (PN-80SC5/PN-70SC5).
12. **OPTION:** This is not used with this monitor (PN-80SC5/PN-70SC5).
13. **DP (DisplayPort):** This is not used with this monitor (PN-80SC5/PN-70SC5).
14. **SIZE (Screen size selection):** The menu is displayed. Press ▲ or ▼ buttons to select the screen size.
15. **PIP/PbyP:** This is not used with this monitor (PN-80SC5/PN-70SC5).
16. **BRIGHT +/- (Brightness adjustment):** Press + or - to display the BRIGHT menu and adjust the brightness.
- \* If you do not press any buttons for about 3 seconds, the BRIGHT menu automatically disappears.
17. **INPUT (Input mode selection):** The menu is displayed. Press ▲ or ▼ to select the input mode, and press ENTER button to enter.
18. **MENU:** Displays and turns off the menu screen.
19. **Cursor:** These buttons are used to perform operations such as selecting items, changing adjustment values, and moving the cursor.
20. **RETURN:** Returns to the previous screen.

<span style="display: inline-block; width: 15px; height: 15px; background-color: #90EE90; border: 1px solid black; margin-right: 5px;"></span> ...Same as current RC button	<span style="display: inline-block; width: 15px; height: 15px; background-color: #0000FF; border: 1px solid black; margin-right: 5px;"></span> ...New button	<span style="display: inline-block; width: 15px; height: 15px; background-color: #FFD700; border: 1px solid black; margin-right: 5px;"></span> ...Old button but with new name	<span style="display: inline-block; width: 15px; height: 15px; background-color: #D3D3D3; border: 1px solid black; margin-right: 5px;"></span> ...No function
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# AQUOS BOARD® Series Feature Comparison

	PN-C603D	PN-L603B	PN-L603W	PN-C703B	PN-C705B	PN-L703B	PN-L703W	PN-C805B	PN-L803C
Class Size (Inch)	60	60	60	70	70	70	70	80	80
Resolution	1080P	1080P	1080P	1080P	1080P	1080P	1080P	1080P	1080P
Viewing Angle (H/V)	160° / 160°	160° / 160°	160° / 160°	160° / 160°	176° / 176°	160° / 160°	160° / 160°	176° / 176°	176° / 176°
Protection Glass / Thickness	Y / 3.4mm	Y / 3.0mm	Y / 3.0mm	Y / 3.4mm	<b>Y / 3.1mm</b>	Y / 3.4mm	Y / 3.4mm	<b>Y / 3.1mm</b>	Y / 3.8mm
Anti-Glare	Y	Y	Y	Y	Y	Y	Y	Y	Y
Fingerprint Resistant	Y	Y	Y	Y	Y	Y	Y	Y	Y
Scratch Resistant	Y	Y	Y	Y	Y	Y	Y	Y	Y
Touch Technology	IR	IR	IR	IR	IR	IR	IR	IR	Capacitive
Max. # of Touch Points	6	10	10	6	<b>10</b>	10	10	<b>10</b>	10
Max. # of Simultaneous Users	2	4	4	2	<b>4</b>	4	4	<b>4</b>	4
Passive Pen / # included	Y / 1	Y / 1	N	Y / 1	Y / 1	Y / 1	N	Y / 1	N
Wireless Touch Pen / # included	N	OPT	Y / 1	N	N	OPT	Y / 1	N	Y / 2
Wireless BYOD Connectivity	N	N	Y	N	N	N	Y	N	N
2 x 2 Split-Screen Display	N	N	Y	N	N	N	Y	N	N
Direct Drawing Function	N	N	Y	N	N	N	Y	N	N
Pen Software 3.x	Y	Y	Y	Y	Y	Y	Y	Y	Y
Multi-Board Pen Software	N	N	N	N	N	N	N	N	Y
SHARP Display Connect Software	Y	Y	Y	Y	Y	Y	Y	Y	Y
Touch Viewer Software	N	N	Y	N	<b>Y</b>	N	Y	<b>Y</b>	Y



# AQUOS BOARD® Series Feature Comparison cont.

	PN-C603D	PN-L603B	PN-L603W	PN-C703B	PN-C705B	PN-L703B	PN-L703W	PN-C805B	PN-L803C
PC VESA Mounting	N	Y	Y	N	Y	Y	Y	Y	Y
Front Facing Stereo Speakers	N	Y	Y	N	N	Y	Y	N	Y
Rear Facing Stereo Speakers	Y	N	N	Y	Y	N	N	Y	N
Touch On-Screen Display	N	Y	Y	N	N	Y	Y	N	Y
Front facing Power Button	N	Y	Y	N	Y	Y	Y	Y	Y
USB Port / #	Fixed Cable	Y / 2	Y / 2	Fixed Cable	Y/1	Y / 2	Y / 2	Y/1	Y / 2
Front Facing USB Port	N	N	N	N	N	N	N	N	Y
HDMI™ / #	Y / 3	Y / 3	Y / 3	Y / 3	Y / 3	Y / 3	Y / 3	Y / 3	Y / 3
DisplayPort in/Out	N	Y	Y	N	N	Y	Y	N	Y
RS-232C Control	Y	Y	Y	Y	Y	Y	Y	Y	Y
LAN Control	N	Y	Y	N	N	Y	Y	N	Y
Camera Mount / # locations	N	Y / 3	Y / 3	N	Y/3	Y / 3	Y / 3	Y/3	Y / 7
Removable Installation Handles	N	Y	Y	N	Y	Y	Y	Y	Y
Connector location	Rear	Bottom & Side	Bottom & Side	Rear	<b>Bottom &amp; Side</b>	Bottom & Side	Bottom & Side	<b>Bottom &amp; Side</b>	Bottom & Side
Standard Warranty	3-Yrs	3-Yrs	3-Yrs	3-Yrs	3-Yrs	3-Yrs	3-Yrs	3-Yrs	3-Yrs
Optional Warranty	4th & 5th-Yr	4th & 5th-Yr	4th & 5th-Yr	4th & 5th-Yr	4th & 5th-Yr	4th & 5th-Yr	4th & 5th-Yr	4th & 5th-Yr	4th & 5th-Yr
Rated Usage	16/7	24/7	24/7	16/7	16/7	24/7	24/7	16/7	24/7



# Packing Details

Model	Shipping Weight (approx.)	Shipping Dimensions (approx.)	UPC
PN-C705B	187 lbs.	70-9/16" W x 9-27/32" D x 44-3/32" H	07400006 6526
PN-C805B	242 lbs.	80-31/32" W x 13-3/16" D x 55-11/32" H	07400006 6519



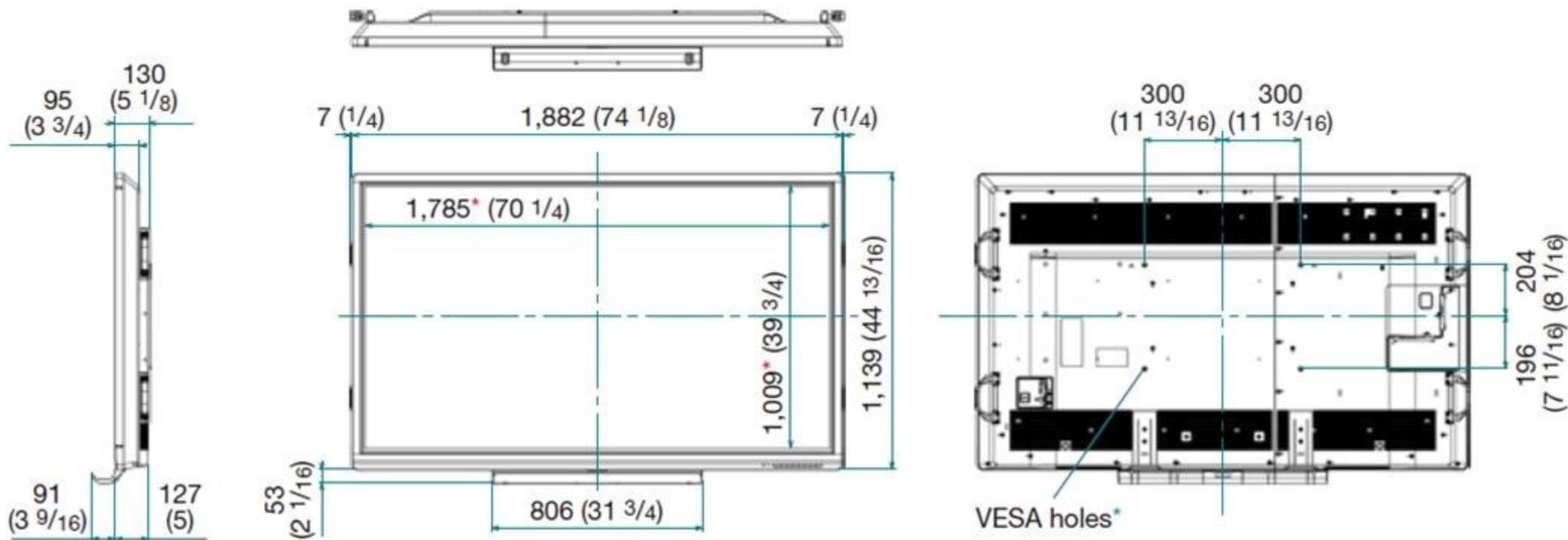
# PN-C805B/C705B vs. PN-C703B Comparison

	PN-C805B/C705B	PN-C703B
Size	80"/70"	70"
Max. Resolution	1,920 x 1,080	1,920 x 1,080
Backlight	LED (80": Direct / 70": Edge)	LED (Edge)
Max. Brightness	350cd/m <sup>2</sup>	300cd/m <sup>2</sup>
Contrast Ratio	80": 5,000 : 1 / 70": 4,000 : 1	3,000 : 1
Viewing Angle (H/V)	176°/176° (CR≥10)	160°/160° (CR≥10)
Protection Glass (approx.)	3.1 mm (incl. AG film)	3.4 mm (incl. AG and AR film)
Protective Glass/LCD Panel Structure	Direct bonding	Air Gap (4.5 mm)
Touch Technology	IR (infrared blocking detection method)	IR (infrared blocking detection method)
Touch Input	Fingers	Fingers
Multi Touch	10 points	6 points
Number of Touch Users	4	2
PC Connection Port	USB 2.0 x 1	USB 2.0 x 1
Controller	N/A	N/A
Input Terminals	HDMI™ x 3, D-Sub x 1, Component x 1, Composite (common with Component) x 1, Audio (mini jack) x 1	HDMI x3, D-Sub x1, Component x1, Composite x1
Output Terminals	Audio (mini jack) x 1	Audio (mini jack) x 1
Control Terminals	Touch USB x 1, RS-232C x 1	Touch USB x 1, RS-232C x 1
Terminal Location	Horizontal insert	Vertical insert
OSD Language	Japanese / English / Germany / French / Italian / Spanish / Russian	Japanese / English / Germany / French / Italian / Spanish / Russian
Speaker Output	Downward 10W + 10W	Downward 10W + 10W
Power Consumption	270W / 200W	235W
Touch Pen	Passive Pen x 1	Passive Pen x 1
Pen Tray	Yes (wide tray)	Yes (wide tray)
Eraser	Yes	Yes
Dimensions (WxDxH) (approx.)(display only)	80" : 74 1/8 x 5 x 44 13/16 in 70" : 64 3/8 x 3 3/4 x 39 5/16 in	64 5/16 x 4 5/16 x 39 1/8 in
AC IN (Cable)	Plug-in	Plug-in
Touch USB (Cable)	USB terminal method (+ Bundled Extension Cable)	Built-in cable (+ Bundled Extension Cable)* * For US : Built-in (Cable 3 mm)
Weight (approx.)	80": 174.2 lb. / 70": 136.7 lb.	123.5 lb.
Installation	Landscape	Landscape
Pen software	Bundled	Bundled





# Dimensions (PN-C805B)

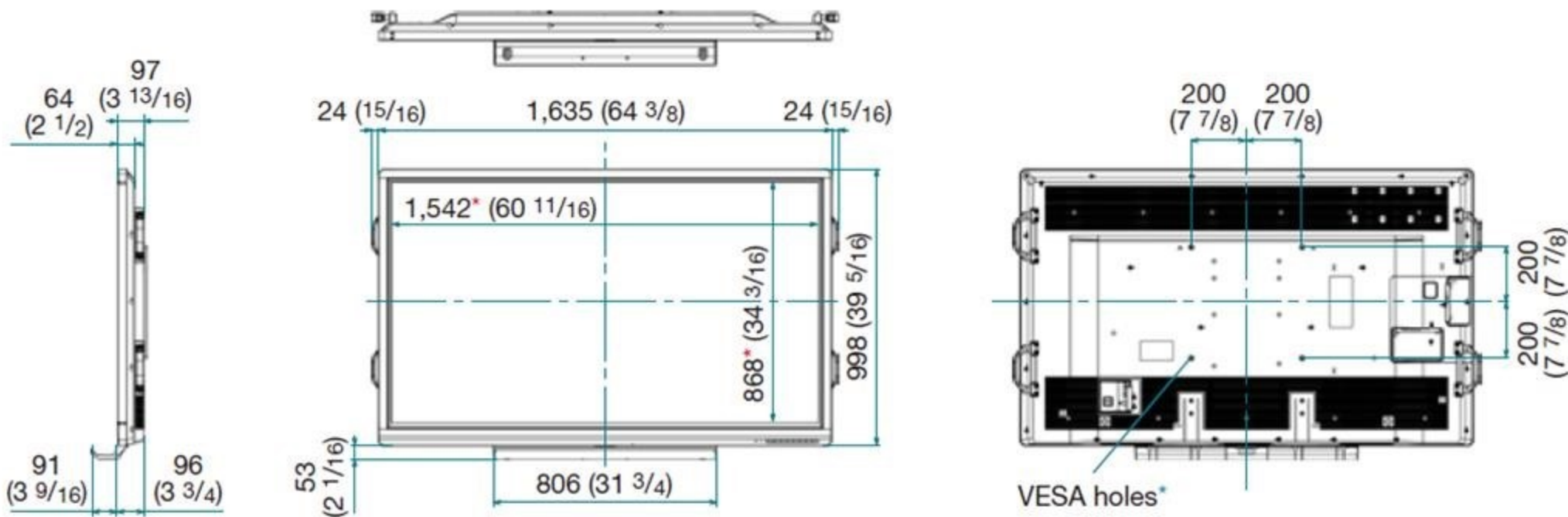


Units: mm (inch)

\* Screen dimensions

\* To use the VESA-standard mounting bracket, use M6 screws that are 8 to 10 mm plus the thickness of the bracket.

# Dimensions (PN-C705B)



Units: mm (inch)

\* Screen dimensions

\* To use the VESA-standard mounting bracket, use M6 screws that are 8 to 10 mm plus the thickness of the bracket.

# Specifications (PN-C805B /PN-C705B)

Model Name	PN-C805B	PN-C705B
Installation	Landscape	
LCD Panel	80" Class (diagonal) UV <sup>1</sup> A <sup>2</sup> LCD	
	Max. Resolution	1,920 x 1,080 pixels
	Max. Display Colors (approx.)	1.07 billion colors <sup>3</sup>
	Pixel Pitch (H x V)	0.923 x 0.923 mm
	Max. Brightness (average) <sup>4</sup>	350 cd/m <sup>2</sup>
	Contrast Ratio	5,000 : 1
	Viewing Angle (H/V) <sup>5</sup>	176°/176° (CR ≥ 10)
	Active Screen Area (W x H) (approx.)	69 3/4" x 39 1/4"
	Response Time	4 ms (gray to gray, avg.)
	Backlight	LED, direct lit
Touchscreen	Touch Technology	IR (infrared blocking detection method)
	PC Connection Port	USB 2.0
	Power Supply	Supplied from USB port
	Multi Touch	10 points
	Protection Glass	Thickness: Approx. 3.1 mm <sup>6</sup> Shock resistance: 130 cm <sup>7</sup>
Touch Pen	Function Button	N/A (passive pen)
Computer Input	Video	Analog RGB (0.7 Vp-p) [75Ω]
	Synchronization	Horizontal/vertical separation (TTL: positive/negative)
	Plug & Play	VESA DDC2B
Video Color System	NTSC (3.58 MHz) / NTSC (4.43 MHz) / PAL / PAL60 / SECAM	
Input Terminals <sup>8</sup>	PC analogue: Mini D-sub 15-pin x 1, HDMI™ x 3 (HDCP and 1080p compatible, PC / AV signal compatible), 3.5 mm-diameter mini stereo jack x 1, audio: RCA pin (L/R) x 1, video: RCA pin x 1 <sup>9</sup> , component video: RCA pin x 1 <sup>9</sup> , RS-232C D-sub 9-pin x 1	
Output Terminals <sup>8</sup>	3.5 mm-diameter mini stereo jack x 1	
Speaker Output	10 W + 10 W	
Mounting	VESA (4 points), 600 x 400 mm, M6 screw	VESA (4 points), 400 x 400 mm, M6 screw
Power Supply	100V – 240V AC, 50/60 Hz <sup>10</sup>	
Power Consumption	270 W	200 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)	74 1/8" x 5" x 44 1/16"	64 3/8" x 3 3/4" x 39 1/16"
Weight (approx.)	174.2 lbs	136.7 lbs
Main Accessories	Power cord, remote control unit, battery (AAA size) x 2, set-up manual, cable clamp x 2, cable clamp (for power cord), USB cable <sup>10</sup> , eraser, pen tray, pen tray mounting screw x 5, touch pen, camera mount, camera mount screw x 2, camera screw, CD-ROM, SHARP Display Connect license, stand hole protection cover x 2, blank sticker	

<sup>1</sup> UV<sup>1</sup>A stands for Ultraviolet-induced Multi-domain Vertical Alignment, a photo-alignment technology that ensures uniform alignment of liquid crystal molecules. <sup>2</sup> Maximum colors of LCD panel. The number of colors that can be displayed simultaneously is 16.77 million arbitrary colors out of 1.07 billion colors. <sup>3</sup> 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. <sup>4</sup> Excluding the touch sensor part around the LCD panel. <sup>5</sup> Including anti-glare film on the front. <sup>6</sup> Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its center. <sup>7</sup> Use a commercially available connection cable for PC and other video connections. <sup>8</sup> Video and component video are switchable; use the menu to select. <sup>9</sup> The AC power cord is an inlet type. The cable is bundled (3 pins). <sup>10</sup> Please use only this USB cable and no other. If connected via a USB hub, a PC may not recognize the PN-C805B/C705B interactive displays correctly and operation may be unstable.

