

Professional and Interactive display range





Contents

BIG PAD Interactive displays	04-33
8K Ultra-HD	34-37
4K Ultra-HD	38-49
Video Wall	50-55
Professional displays	56-71
Accessories	72-79



BIG PAD Interactive displays

Contents

Windows Collaboration Display - NEW	06-07
PN-86HC1/75HC1/70HC1E - NEW	08-09
PN-85TH1/75TH1/65TH1 - NEW	10-11
PN-80TH5/70TH5	12-13
PN-80TC3A	14-15
PN-70TW3A/60TW3A	16-17
PN-70TB3/60TB3	18-19
PN-80SC5/70SC5/60SC5	20-21
PN-65SC1	22-23
PN-50TC1/40TC1	24-25
Early Learning Table	26-27
Advanced Multi-Board software	28-29
Optimised Video Collaboration	30-31
SHARP Display Connect	32-33

BIG PAD

BIG PAD is our hero range of interactive displays, with the power to transform meetings and lessons. The Pen-on-Paper natural user experience makes writing on the display feel as though you're using a real pen and paper, and promotes a collaborative



Pen-on-Paper

working environment. The range includes affordable versions for campus environments and small and medium-sized offices and extends to the award-winning displays with the smoothest projected capacitive (PCAP) touch technology for transformative collaborative meetings.

Windows Collaboration Display

Walk in, plug in and work together - a smarter way to work

Sharp's Windows Collaboration Display (WCD) is a next generation 4K 70" interactive display that enables better space utilisation and more productive collaboration in meetings, boardrooms, training rooms, technical reviews and virtually anywhere else. As well as using Sharp's award-winning professional display technology it works seamlessly with the best Microsoft 365 collaboration tools. And a 'plug and play' design means it can be used straightaway. Its in-built sensors also collect real-time data about room usage and ambient conditions and can help create a smart building environment.

Key benefits | Windows Collaboration Display

- Crystal clear information with a 70" 4K Ultra HD (3840 x 2160) display
- Enhanced collaboration when using Microsoft 365 and Microsoft Teams
- · A natural 'Pen-on-Paper' experience with 30-point PCAP touch technology
- Fast, precise control using an optional 4-Button Active pen
- Effortless interaction with an integrated microphone and 4K camera
- 'Plug and play' set-up through a single USB-C connector
- Smart building management using an IoT sensor hub and the Microsoft Azure Digital Twins platform
- Easy device sharing with in-built Wireless Casting and the Touch Back control



Model		Windows Collaboration Display
Installation		Landscape
		70-inch-class (69 1/2-inch [176.6 cm] diagonal) UV ² A*1 LCD
	Max. Resolution	3,840 x 2,160 pixels
	Max. Display Colours	1.06 billion colours
	Pixel Pitch (H x V)	0.401 x 0.401 mm
	Brightness*2	350 cd/m ²
LCD Panel	Contrast Ratio	4,000:1
	Viewing Angle (H/V)	176°/176° (CR ≥10)
	Active Screen Area	1,538.9 x 865.6 mm
	(W x H)	
	Response Time	6 ms (grey to grey, avg.)
	Backlight Touch Technology	W-LED, edge lit
	Direct Optically Bonded	Projected Capacitive (PCAP) touch Yes
	Palm reject	Yes
Touchscreen	PC Connection Port	USB (2.0 compliant) (Type B) x 2
Touchiscreen	Power Supply	Supplied from main unit
	Multi-Touch	30 points
	Protection Glass	Thickness: 1.9 mm*3 Shock resistance: 130 cm*4
	Passive Touch Pen	Yes
Passive Touch		(optional) with wireless communication method and
Pen	Active Touch Pen	function buttons x4
	Wireless communication	
	method	2.4 GHz, IEEE802.11 b/g/n; 5 GHz, IEEE802.11 a/n
Wireless	LAN Terminal	10Base-T/100Base-TXfunction buttons x4
Controller		USB (2.0 compliant) (Type A) x 1
	USB Port	USB (3.0 compliant) (Type A) x 1
	Video	HDMI
Computer		Yes
Input	Plug & Play	
	Power Management	Yes
Input Terminals		USB-C x 2, HDMI (HDCP, PC/AV signal compatible) x 1,
		3.5 mm diameter mini stereo jack x 1
Input/Output Te		LAN port (10Base-T/100Base-TX) x 1
Speaker Output	Built-in	10 W + 10 W
	External	10 W + 10 W 100V - 240V AC, 50/60 Hz
Power Supply Power Consump	ntion	235 W
	Operating Temperature	5°C to 35°C
Conditions	Operating Humidity	20% to 80% RH (no condensation)
Dimensions (W		
(display only)	X 2 X,	1.623.6 x 90 x 976.4 mm
Weight		TBC
		AC power cord, remote control unit, battery (AA size x 2),
Main Accessorie	2S	set-up manual, USB-C cable (8.0 m), passive touch pen
	Camera	4K @ 30fps
	Field of view	120°
Unified Communications	Microphone	Array microphone x 2
Communications	Sound collecting	4-6m
	distance	4-011
IoT Sensor Hub		
	Output Connector	USB 2.0
Al Camera	Resolution	1920 x 1080 @30 fps
	Colour space	YUY2, MJPG, H.264
	Field of view	130°
Motion sensor	Sensor type	Microwave 140*
	Detection area Selectable LUX ranges	128/256/512/1024/2048
Light sensor	Processing	50/60Hz flicker noise and IR rejection
Air quality		
Air quality sensor Gas types eCO2, TVOC		eCO2, TVOC
Temperature	Temperature range	-40°C to +100°C
humidity	, ,	
sensor	RH range	0% - 100%

^{**1}UV-A 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 litations of the equipment, it is not possible to maintain a precisely constant level of brightness. *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.

PN-86HC1/75HC1/70HC1E

The BIG PAD for teaching and training

Sharp's **BIG PAD HC1** range enables ultra clear '4K Reading' of detailed 4K screen data and makes presenting really easy with an intuitive Pen-on-Paper user experience. It has a highly responsive, interactive display that allows group work at the screen and a range of smart collaboration features, including an integrated Android PC with whiteboard, overlay and wireless functionality. Whether teaching and training, working in a meeting room or reviewing detailed documents it is great for enabling more effective learning, promoting idea sharing and encouraging interactivity.

Key benefits | PN-86HC1/75HC1/70HC1E

- Ultra clear information with a choice of 70", 75" and 86" 4K Ultra HD (3840 x 2160) displays
- Provides a natural 'Pen-on-Paper' experience using a passive Stylus/Pen or your finger
- Fast, accurate and responsive touchscreen with 125Hz Touch Sampling and gesture support
- Effortless connectivity using a wide range of options, including USB, HDMI and wireless
- Extensive teaching tools and online content accessible through an integrated Android PC
- · Easily add third-party functionality through a built-in OPS slot
- · Intuitive control with full bezel button controls and on screen touch menu



Model		PN-86HC1 PN-75HC1 PN-70HC1E			
Installation		Landscape			
		86-inch-class (217.4 cm)	75-inch-class (189.3 cm)	70-inch-class (176.6 cm)	
	Max. Resolution Max. Display Colours				
			1.06 billion colours		
	Pixel Pitch (H x V)	0.494 x 0.494 mm	0.429 x 0.429 mm	0.401 x 0.401 mm	
LCD Panel	Brightness*1	400 cd/m ²	400 cd/m ²	350 cd/m ²	
	Contrast Ratio	1,200:1	1,200:1	5,000:1	
	Viewing Angle (H/V)	176°/176° (CR ≥10)			
	Active Screen Area (W x H)	1895 x 1066 mm	1649 x 930 mm	1539 x 866 mm	
	Response Time	8 ms (grey to grey, avg.)	8 ms (grey to grey, avg.)	6.5 ms (grey to grey, avg.)	
	Backlight	LED, edge lit	LED, edge lit	LED, direct lit	
Touchscreen	Touch Technology				
	Multi-Touch	10-Points			
Touch Pen	Function Button	N/A (passive pen)			
	Video		Analogue RGB (0.7 Vp-p) [75]		
Computer	Synchronisation	Horizontal/vertical separation (TTL: positive/negative)			
Input	Plug & Play	VESA DDC2B			
	Power Management	VESA DPMS			
Android SoC		Yes			
Integrated Wire	less	Via Android SoC			
Integrated Whit	teboard App	Via Android SoC			
Input Terminals	5	Mini D-sub 15-pin x	1, HDMI x 3	Mini D-sub 15-pin x 2, HDMI x 3	
Output Termina	als	3.5 mm-diameter r	nini stereo jack x 1		
Input/Output T	erminals	LAN port (10Base-T	/100Base-TX) x 1		
Expansion Slot		OPS			
Built-in Speake	rs	Built-in - 10 W + 10	W		
Power Supply		100V - 240V AC, 50/60 Hz			
Power Consum	ption	TBD TBD TBD		TBD	
Environmental	Operating Temperature	5°C to 35°C			
Conditions	Operating Humidity	lity 20% to 80% RH (no condensation)			
Dimensions (W (display only)	x D x H)	TBD TBD 1,629 x 99 x 990 mm			
Weight	TBD TBD TBD kg			TBD kg	

^{*}¹ 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. Design and specifications are subject to change without prior notice.

PN-85TH1/75TH1/65TH1

The BIG PAD for the boardroom or classroom

Sharp's **PN-85TH1/75TH1/65TH1 4K BIG PAD** range is designed for smooth and effortless collaboration in a wide range of office meeting, boardroom and training room environments. Using the latest InGlass touch technology they offer a highly responsive and natural feeling Pen-on-Paper experience, with smooth, accurate and responsive annotation. An integrated Android PC enables effortless wireless collaboration with other devices and also includes a whiteboard application for fast smart board functionality. And using the Touch Back feature allows presenters to remotely control their PC or wirelessly connected device directly from the BIG PAD.

Key benefits | PN-85TH1/75TH1/65TH1

- Outstanding image clarity with a choice of 85", 75" and 65" 4K Ultra HD (3840 x 2160) displays
- A natural 'Pen-on-Paper' experience using the latest InGlass touch technology
- Fast, precise and intuitive control with the latest Sharp Pen software
- 20 Point Touch technology enables effortless interaction with multiple users
- Enhanced multimedia playback with 10W + 10W front speakers
- Easy collaboration and device sharing with built-in wireless connectivity and Touch Back control
- · Add extra third-party functionality through a Mini-OPS slot
- Flexible landscape, portrait or tilted installation with an optional stand or wall mount
- Continuous 24/7 operation



Model		PN-85TH1 PN-75TH1 PN-65TH1		
Installation		Landscape / Portra	it	
		85-inch-class (214 cm)	75-inch-class (189.3 cm)	65-inch-class (163.9 cm)
	Max. Resolution	3,840 x 2,160 pixels		
	Max. Display Colours	1.06 billion colours		
	Pixel Pitch (H x V)	0.490 x 0.490 mm		
LCD Panel	Brightness*1	350 cd/m ²		
	Contrast Ratio	1,200:1	1,200:1	4,000:1
	Viewing Angle (H/V)	178°/178° (CR ≥10)		
	Active Screen Area (W x H)	1895 x 1066 mm	1649 x 930 mm	1539 x 866 mm
	Response Time	8 ms (grey to grey, avg.)	8 ms (grey to grey, avg.)	6.5 ms (grey to grey, avg.)
	Backlight	LED, edge lit	LED, edge lit	LED, direct lit
Touchscreen	Touch Technology	InGlass		
	Multi-Touch	20-Points		
Touch Pen	Function Button	Via Optional Active Pen (TBD) (Passive Pen Standard)		
	Video	Analogue RGB (0.7)	gue RGB (0.7 Vp-p) [75Ω]	
Computer	Synchronisation	Horizontal/vertical separation (TTL: positive/negative)		
Input	Plug & Play	VESA DDC2B		
	Power Management	VESA DPMS		
Android SoC		Yes		
Integrated Wire	less	Via Android SoC		
Integrated Whit	eboard App	Via Android SoC		
Input Terminals	;	Mini D-sub 15-pin x 3.5 mm-diameter n	1, HDMI x 2, Displayf nini stereo jack x 1	Port x 1
Output Termina	ıls	3.5 mm-diameter m DisplayPort x 1	nini stereo jack x 1,	
Input/Output Te	erminals	LAN port (10Base-T, RS232C x 1	/100Base-TX) x 1	
Expansion Slot		Mini-OPS		
Built-in Speaker	rs	Built-in - 10 W + 10	W	
Power Supply		100V - 240V AC, 50/60 Hz		
Power Consum	otion	TBD	TBD	TBD
Environmental	Operating Temperature	5°C to 35°C		
Conditions	Operating Humidity	20% to 80% RH (no condensation)		
Dimensions (W (display only)	x D x H)	TBD TBD TBD		TBD
Weight		TBD TBD TBD		

^{*}¹ 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.

PN-80TH5/70TH5

Sharp's **BIG PAD TH5** range is the ultimate premium 4K interactive display for corporate office meetings, architectural construction, engineering design, medical review and demanding specialised collaborative working environments. Building on Sharp's unique pioneering interactive display legacy, the BIG PADs **PN-80TH5/70TH5** represent Sharp's latest innovative insight and unparalleled experience in providing a genuine 4K Reading and Writing with Pen-on-Paper user experience. Offering state-of-the-art smooth projected capacitive (PCAP) touch technology, Sharp's flagship 4K BIG PAD interactive display is once again setting the industry standard for collaborative teamwork.

Key benefits | PN-80TH5/70TH5

- 4K BIG PAD for demanding corporate, office, education and specialised applications
- 80" and 70" screen sizes with 3840 x 2160 pixels
- Pen-On-Paper user experience with highly responsive PCAP 30-point touch
- True 4K Reading and Writing user experience with integrated Palm Reject
- · Brilliant eye-catching image content with Direct Optical Bonding
- Intuitive writing, drawing and annotation with Sharp Pen software
- Latest BYOD wireless Interconnectivity with Mini-OPS Slot or Sharp Display Connect
- Powerful data organisation and collaboration with Sharp Touch Viewer application
- Optional Advanced Multi-Board for highly effective multi-display, multi-user and multi-touch applications
- 24/7 operation



Model		PN-80TH5	PN-70TH5	
Installation		Landscape/Portrait	Landscape/Portrait/Face-up	
		80-inch-class (204.4 cm diagonal) UV ² A ⁺¹ LCD	70-inch-class (176.6 cm diagonal) UV ² A*1 LCD	
	Max. Resolution	3,840 x 2,160 pixels		
Max. Display Colours		1.06 billion colours		
	Pixel Pitch (H x V)	0.462 x 0.462 mm	0.401 x 0.401 mm	
LCD Panel	Brightness*2	300 cd/m ²		
200	Contrast Ratio	4,000:1		
	Viewing Angle (H/V)	176°/176° (CR ≥10)	1	
	Active Screen Area (W x H)	1,771.2 x 996.3 mm	1,538.9 x 865.6 mm	
	Response Time	6 ms (grey to grey, avg.)		
	Backlight	LED, full array	LED, edge lit	
	Touch Technology	Projected Capacitive (PCAP) t	ouch	
	PC Connection Port	USB 2.0 (type B) x 2		
Touchscreen	Power Supply	Supplied from main unit		
	Multi-Touch Protection Glass	30 points	-i-+	
	Communication	Thickness: 1.9 mm ^{*3} Shock re Wireless communication met		
Touch Pen	Function Button	Yes	1100	
	Video	Analogue RGB (0.7 Vp-p) [75],	DisplayPort 1.2a	
	Video			
Computer Input	Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync on green*5, Composite sync (TTL: positive/negative)*5		
•	Plug & Play	VESA DDC2B		
	Power Management	VESA DPMS		
Video Colour Sy	/stem	TSC (3.58 MHz) / NTSC (4.43 M		
Input Terminals*5		PC analogue: Mini D-sub 15-p 1080p compatible, PC/AV sigr diameter mini stereo jack x 1, x 1*6, DisplayPort (HDCP com x 2, RS-232C x 1*7*8	IIIX1 -, HDMI (HDCP allu- nal compatible) x 3, 3.5 mm- Video x 1 ¹⁶ , Component video patible, PC signal compatible)	
Output Termina	als*5	3.5 mm-diameter mini stereo compatible) x 1	jack x 1, DisplayPort (HDCP	
Input/Output T		LAN port (10Base-T/100Base-	TX) x 1	
USB Hub Funct	ion	USB 2.0 (Type A) x 2		
Expansion Slot		13 V, 2.4 A (power supplied who with an optional part)	nen expanding the functions	
Speaker Output	Built-in	10 W + 10 W		
Mounting		VESA (4 points), 600 x 400 mm pitch, M6 screw	VESA (4 points), 400 x 400 mm pitch, M6 screw	
Power Supply		100V - 240V AC, 50/60 Hz		
Power Consum		325 W 215 W		
	Operating Temperature	5°C to 35°C		
Conditions	Operating Humidity	20% to 80% RH (no condensa	ition)	
Dimensions (W x D x H) (display only)		1,863 x 98 x 1,090 mm	1,612.5 x 92.5 x 941.4 mm	
Weight		73 kg	57 kg	
AC power cord, remote control unit, re battery (AAA size) x 2, set-up manual, c type) x 4, cable clamp x 3, USB cable, L RS-232C conversion cable, eraser, pen (PN-80THS), touch pen x 1 (PN-70THS) touch pen adapter screw, touch pen bip x 2, speaker cover x 2, camera mour speaker cover attachment screw/came CD-ROM, SHARP Display Connect licen blank sticker		nanual, cable clamp (insertion cable, USB extension cable, ser, pen fray, touch pen x 2 1-70TH5), touch pen adapter, ch pen battery (AAA size), pen era mount, camera screw, ew/camera mount screw x 6,		

Warning: The PN-80TH5 should not be mounted flat nor used as a touch table type installation. Please consult an authorised SHAPP dealer before considering any type of flat installation and find out about the mandatory flat mounting instructions. Flat installation - when the monitor is tilted more than 20 degrees upward from the perpendicular in relation to a level surface.

**UW-A stands for Ultraviolet-induced Multi-domain Vertical Alignment, a photo-alignment technology that ensures uniform alignment of liquid crystal molecules. **B 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. **I including AG film on the front. **Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its centre. **D-sub input terminal only. **When connecting with an analogue mini D-sub 15-pin jack, max. resolution is 1,920 x 1,200 pixels. **I Analogue PC, video, and component video are switchable (on bottom interface); use the menu to select. Video and component video connections require conversion cable via mini 10 but 15-pin jack. **I When using the monitor laying flat on a surface (when the monitor is tilted more than 20 degrees upward from the perpendicular in relation to a level surface) the ambient temperature must be within the range of 5°C to 30°C. Temperature conditions may change when using the monitor together with the optional equipment. In such cases, check the temperature conditions specified by the optional equipment. **Ocheck the requirements of the computer and other devices to be connected, and make sure that all requirements are satisfied.

PN-80TC3A

Responsive, intuitive and seamless collaboration – Sharp's BIG PAD Pro

Sharp's BIG PAD Pro **PN-80TC3A** is the class-leading model for corporate settings and demanding mission-critical collaborative environments. Building on a unique pioneering interactive legacy, the **PN-80TC3A** boasts projected capacitive touch technology (PCAP) representing Sharp's innovative insight and unparalleled experience in providing optimised, dedicated and collaborative touchscreen solutions. Sharp's Pen-on-Paper natural user experience makes writing on a BIG PAD feel close to using a real pen on writing paper. BIG PAD Pro is fast, responsive and intuitive – using one BIG PAD Pro is good. Using two or three BIG PAD Pro's in the powerful Multi-Board configuration is even better!

Key benefits | PN-80TC3A

- · BIG PAD Pro for the most demanding corporate environments
- Pen-on-Paper natural user experience; it really is as though you're writing with a real pen and paper
- · 80" diagonal screen size
- Smooth and responsive PCAP 10-point touch with 220hz sampling and up to 4 users
- · Seamless flat bezel for optimised multi-board configurations
- Smooth glass surface for best in class tactile comfort
- SHARP Pen software including new sheet extension function
- Multi-device BYOD collaboration with SHARP Display Connect
- · SHARP Touch Viewing software for easy project file management
- Optional Advanced Multi-Board for highly effective multi-display, multi-user and multi-touch applications
- · 24/7 operation



Model		PN-80TC3A	
Installation		Landscape/Portrait	
		80-inch widescreen (203.2 cm diagonal) UV ² A*1 LCD	
	Max. Resolution	1,920 x 1,080 pixels	
	Max. Display Colours	1.06 billion colours	
	Pixel Pitch (H x V)	0.923 x 0.923 mm	
LCD Panel	Brightness*2	300 cd/m²	
LCD Panet	Contrast Ratio	4,000:1	
	Viewing Angle (H/V)	176°/176° (CR ≥10)	
	Active Screen Area (W x H)	1,771.2 x 996.3 mm	
	Response Time	4 ms (grey to grey, avg.)	
	Backlight	LED, edge lit	
	Touch Technology	Projected Capacitive (PCAP)	
	PC Connection Port	USB 2.0 (type B) x 2	
Touchscreen	Power Supply	Supplied from main unit	
	Multi-Touch	10 points	
	Protection Glass	Thickness: 3.8 mm* ³ Shock resistance: 130 cm* ⁴	
Touch Pen	Function Button	Yes	
	Video	Analogue RGB (0.7 Vp-p) [75], DisplayPort 1.1a	
Computer Input	Synchronisation	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 DPMS	
Video Colour Sy	stem	NTSC (3.58 MHz) / NTSC (4.43 MHz) / PAL / PAL60 / SECAM	
Input Terminals	*5	PC analogue: Mini D-sub 15-pin x 2*6, HDMI (HDCP and 1080p compatible, PC/AV signal compatible) x 3, 3.5 mm-diameter mini stereo jack x 2, Video x 1*6, Component video x 1*6, DisplayPort (HDCP compatible, PC signal compatible) x 1, RS-232C x 1*7*8	
Output Termina	ils*5	3.5 mm-diameter mini stereo jack x 1, DisplayPort (HDCP compatible) x 1	
Speaker	Built-in	10 W + 10 W	
Output	External	10 W + 10 W (6)	
Mounting		VESA (4 points), 600 x 400 mm pitch, M6 screw	
Power Supply		100V – 240V AC, 50/60 Hz	
Power Consump	otion	280 W	
Environmental	Operating Temperature	5°C to 35°C	
Conditions	Operating Humidity	20% to 80% RH (no condensation)	
Dimensions (Water (display only)	x D x H)	1,850 x 96 x 1,072 mm	
Weight		77 kg	
Main Accessorie	rs	AC power cord, remote control unit, battery (AA size) x 2, set-up manual, blank sticker, cable clamps x 7, camera mount, USB cable (3.0 m), USB extension cable (1.8 m), eraser, pen tray, touch pen (with function button) x 2, pen adaptor, touch pen battery (AAA size) x 2, SHARP Display Connect's oftware CD-ROM, RS-232C conversion cable (3.5 mm-diameter mini stereo jack) x 1	

^{*}¹U/°A stands for Ultraviolet-induced Multi-domain Vertical Alignment, a photo-alignment technology that ensures uniform alignment of liquid crystal molecules. *¹Brightness 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. *¹Including AG film on the front and AR film on the back. *⁴Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its centre. *³ Use a commercially available connection cable for PC and other video connections. *⁴Analogue PC, video, and component video are switchable (on bottom interface); use the menu to select. Video and component video connections require conversion cable via mini D-sub 15-pin jack. *¹ Requires the bundled RS-232C conversion cable. *³ Only command control.

PN-70TW3A/60TW3A

Sharp's BIG PAD with wireless connectivity

Sharp's **PN-70TW3A/60TW3A** are the industry-leading BIG PAD models to have the easy-to-use, integrated wireless collaboration feature, MirrorOp for Sharp, connecting to mobile devices (iOS, Android, Windows) and mobile PCs. For office meetings, training rooms, the boardroom, classrooms as well as demanding mission-critical collaborative working environments, the **PN-70TW3A/60TW3A** are setting the standard in providing optimised and dedicated collaborative touchscreen solutions. As well as screen sharing from connected devices, the BIG PAD Touch-Back feature allows any presenter to remotely control their PC via touch directly from the BIG PAD.

In addition, the integrated controller, Direct Drawing, gives the **PN-70TW3A/60TW3A** fast smart board functionality without the need for an external PC, while the Pen-on-Paper natural user experience feels close to using a real pen on writing paper.

Key benefits | PN-70TW3A/60TW3A

- · Infrared (IR) 10-point touch 200Hz sampling and up to 4 users
- Pen-on-Paper natural user experience; it really is as though you're writing with a real pen and paper
- Touch-Back wireless PC control directly from BIG PAD Wireless
- Integrated BYOD screen sharing, for quick and easy sharing of ideas without cable clutter
- Integrated Direct Drawing for instant white-boarding
- SHARP Pen software including new sheet extension function
- "1 to 4" content cloning on up to 4 BIG PAD Wireless displays
- Pen digitiser windows driver for intuitive and automatic switching between pen and finger input
- · SHARP Touch Viewing software for easy project file management
- · Split screen display of up to 4 devices onto the BIG PAD Wireless
- · Smooth glass surface for best in class tactile comfort
- 24/7 operation



Model		PN-70TW3A	PN-60TW3A
Installation		Landscape	
		70-inch-class (176.6 cm diagonal) UV ² A*¹ LCD	60-inch-class (152.5 cm diagonal) UV ² A*¹ LCD
	Max. Resolution	1,920 x 1,080 pixels	diagonal) ov 71 Leb
Max. Display			
	Colours	1.06 billion colours	
	Pixel Pitch (H x V)	0.802 x 0.802 mm	0.692 x 0.692 mm
LCD Panel	Brightness*2	300 cd/m ²	
	Contrast Ratio	3,000:1	
	Viewing Angle (H/V)	160°/160° (CR ≥10)	I
	Active Screen Area (W x H)	1,538.9 x 865.6 mm	1,329.1 x 747.6 mm
	Response Time	6 ms (grey to grey, avg.)	
	Backlight	LED, edge lit	
	Touch Technology	IR (infrared blocking detectio	n method)
	PC Connection Port	USB (2.0 compliant) (Type B)	x 2
Touchscreen	Power Supply	Supplied from main unit	
rouchscreen	Multi-Touch	10 points	
	Protection Glass	Thickness: 3.4 mm* ³ Shock resistance: 130 cm* ⁴	Thickness: 3.0 mm* ³ Shock resistance: 130 cm* ⁴
Touch Pen	Communication	Wireless communication met	hod
rouch Pen	Function Button	Yes	
		Wireless communication met b/g/n) (5 GHz, IEEE802.11 a/n	hod (2.4 GHz, IEEE802.11)
Wireless	LAN Terminal	10Base-T/100Base-TX	
Controller	USB Port	USB (2.0 compliant) (Type A) x 1	
	Wireless Adaptor Port	USB (2.0 compliant) (Type A) x 1	
Video		Analogue RGB (0.7 Vp-p) [75],	DisplayPort 1.1a
Computer	Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync on green*5, Composite sync (TTL: positive/negative)*5	
Input	Plug & Play	VESA DDC2B	
	Power Management	VESA DPMS	
Video Colour Sy	ystem	NTSC (3.58 MHz) / NTSC (4.43	MHz) / PAL / PAL60 / SECAM
Input Terminal:	S* ⁶	PC analogue: Mini D-sub 15-p and 1080p compatible, PC / A mm-diameter mini stereo jac RCA pin x 2*6, component vid D-sub 9-pin x 1	W signal compatible), 3.5 k x 1, RCA pin (L/R) x 2, video:
Output Termina	als* ⁶	3.5 mm-diameter mini stereo DisplayPort (HDCP compatibl	
Input/Output T	erminals*6	LAN port (10Base-T/100Base-	TX) x 1
Speaker	Built-in	10 W + 10 W	
Output	External	10 W + 10 W	
Mounting		VESA (4 points), 400 x 200 mm	pitch, M6 screw
Power Supply		100V - 240V AC, 50/60 Hz	
Power Consum	ption	235 W	190 W
Environmental		5°C to 35°C	
Conditions	Operating Humidity	20% to 80% RH (no condensa	ition)
Dimensions (W x D x H) (display only)		1,647 x 94 x 1,010 mm	1,437 x 94 x 890 mm
Weight		61 kg	48 kg
AC power cord, remote control unit, battery (AA set-up manual, blank sticker, cable clamps x, 5, c; mount, USB cable (3.0 m), eraser, pen tray, touch Main Accessories function button), pen adaptor, touch pen battery size), SHARP Display Connect software CD-ROM, token, wireless adaptor, wireless adaptor, cover, f		cable clamps x 5, camera ser, pen tray, touch pen (with r, touch pen battery (AAA software CD-ROM, wireless	

^{*}¹UV²A stands for Ultraviolet-induced Multi-domain Vertical Alignment, a photo-alignment technology that ensures uniform alignment of liquid crystal molecules. *²Brightness 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. *³Including AG film on the front and AR film on the back. *⁴Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its centre. *¹D-sub input terminal only. *fuse a commercially available connect nable for PC and other video connections. *¹Analogue PC, video, and component video are switchable (on bottom interface); use the menu to select. Video and component video connections require conversion cable via mini D-sub 15-pin jack. **Requires the bundled RS-232C conversion cable. For command control only.

conversion cable (3.5 mm-diameter mini stereo jack) x 1

PN-70TB3/60TB3

Simple, intuitive operation lets you focus on interacting

Sharp's intelligent interactive display PN-70TB3/60TB3 are designed for smooth and effortless collaboration 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 the Pen-on-Paper natural user experience makes it feel as though you are using a real pen on writing paper. SHARP Display Connect software enables multifaceted wireless communication. Whether in the boardroom or the classroom, Sharp changes the way you communicate.

Key benefits | PN-70TB3/60TB3

- 70" / 60" Class UV²A LCD
- Pen-on-Paper natural user experience; it really is as though you're writing with a real pen and paper
- 10 point touch
- 10W + 10W front speakers
- 1920 x 1080 resolution
- Integrated touchscreen
- Contrast 3,000:1
- SHARP Pen software including new sheet extension function
- · Optional stand / Wall mount
- Collaboration via MFP / Tablets
- · 24/7 operation



Model		PN-70TB3	PN-60TB3	
Installation		Landscape		
		70-inch-class (176.6 cm diagonal) UV ² A ^{*1} LCD	60-inch-class (152.5 cm diagonal) UV ² A ^{*1} LCD	
	Max. Resolution	1,920 x 1,080 pixels		
	Max. Display Colours	1.06 billion colours		
	Pixel Pitch (H x V)	0.802 x 0.802 mm	0.692 x 0.692 mm	
	Brightness*1	300 cd/m ²		
LCD Panel	Contrast Ratio	3,000:1		
	Viewing Angle (H/V)	160°/160° (CR ≥10)		
	Active Screen Area (W x H)	1,538.9 x 865.6 mm	1,329.1 x 747.6 mm	
	Response Time	6 ms (grey to grey, avg.)		
	Backlight	LED, edge lit		
Video		Analogue RGB (0.7 Vp-p) [75],	DisplayPort 1.1	
Computer Input	Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync on green (D-sub 15-pin only), Composite sync (TTL: positive/negative)		
mput	Plug & Play	VESA DDC2B		
	Power Management	VESA DPMS, DVI DMPM		
Touch Pen	Function Button	N/A (passive pen)		
Video Colour Sy	rstem	NTSC (3.58 MHz, 4.43 MHz), PA	AL, PAL60, SECAM	
Input Terminals	*2	PC analogue: Mini D-sub 15-p 1080p compatible, PC/AV sigr mm-diameter mini stereo jac video x 1*2		
Output Termina	ils*3	3.5 mm-diameter mini stereo DisplayPort (HDCP compatibl		
Input/Output To	erminals	LAN port (10Base-T/100Base-	TX) x 1	
Built-in Speake	rs	Built-in - 10 W + 10 W, External - 10 W + 10 W		
Power Supply		100V – 240V AC, 50/60 Hz		
Power Consum	ption	250 W	185 W	
Environmental	Operating Temperature	5°C to 35°C		
Conditions	Operating Humidity	20% to 80% RH (no condensa	ition)	
Dimensions (W (display only)	x D x H)	1,647 x 94 x 1,010 mm 1,437 x 94 x 890 mm		
Weight 61 kg 46 kg		46 kg		

^{*}¹ UV²A stands for Ultraviolet-induced Multi-domain Vertical Alignment, a photo-alignment technology that ensures uniform alignment of liquid crystal molecules. *² Analogue PC, video, and component video are switchable (on bottom interface); use the menu to select. Video and component video connections require conversion cable via mini D-sub 15-pin jack. *³For connecting keyboard, mouse, and USB memory device.

PN-80SC5/70SC5/60SC5

BIG PAD for best classroom management

Collaboration and interactivity have never been more important in business meetings, lessons or in operational rooms - the BIG PAD line up PN-80SC5/70SC5/60SC5 places image quality and best in class touch performance at the heart of its design. Featuring 1920 x 1080 resolution, 350 cd/m² brightness and direct optical bonding, our touchscreen displays deliver a truly engaging and responsive experience for a wide range of professional applications. Our Pen-on-Paper natural user experience makes it feel as though you are using a real pen on writing paper.

Key benefits | PN-80SC5/70SC5/60SC5

- New generation Sharp BIG PAD interactive displays with presentation control features Freeze Frame/Blackout Buttons for more classroom control
- Pen-on-Paper natural user experience; it really is as though you're writing with a real pen and paper
- 80"/70"/60" UV²A LCD; interactive display
- Imaging with higher contrast picture (Direct Optical Bonding) for increased touch accuracy and removal of parallax error
- 10 Point IR touch for confident and intuitive interactivity
- 16/7 operation
- Smooth glass surface texture for prolonged tactile comfort
- SHARP Pen software including sheet extension function
- SHARP Touch Viewing software for easy project file management
- · Multi-device BYOD collaboration with SHARP Display Connect



Model		PN-80SC5	PN-70SC5	PN-60SC5
Installation		Landscape		
		80-inch-class (203.2 cm diagonal) UV ² A* ¹ LCD	70-inch-class (176.6cm diagonal) UV ² A* ¹ LCD	60-inch-class (152.5cm diagonal) UV ² A ^{*1} LCD
	Max. Resolution	1,920 x 1,080 pixels		
	Max. Display Colours	1.07 billion colours	*2	16.77 million
Pixel Pitch (H x V)		0.923 x 0.923 mm	0.802 x 0.802 mm	0.693 x 0.693 mm
LCD Panel	LCD Panel Brightness*3			
	Contrast Ratio	5,000:1	4,000:1	5,000:1
	Viewing Angle (H/V)*4	176°/176° (CR ≥10)		
	Active Screen Area (W x H)	1,771.2 x 996.3 mm	1,538.9 x 865.6 mm	1,330.6 x 74.4mm
	Response Time	4 ms (grey to grey, avg.)	8 ms (grey to grey, avg.)	4 ms (grey to grey, avg.)
	Backlight	LED, direct lit	LED, edge lit	
	Touch Technology	IR (infrared blockin	g detection method)	
	PC Connection Port	USB 2.0		
Touchscreen	Power Supply	Supplied from USB	port	
	Multi-Touch	10 points		
	Protection Glass	Thickness: 3.1 mm'	⁵ Shock resistance: 1	.30 cm*6
Touch Pen	Function Button	N/A (passive pen)		
	Video	Analogue RGB (0.7 Vp-p) [75Ω]		
Computer Input	Synchronisation	Horizontal/vertical separation (TTL: positive/negative)		
прис	Plug & Play	VESA DDC2B		
Video Colour Sy	rstem	NTSC (3.58 MHz) / N	NTSC (4.43 MHz) / PAI	/ PAL60 / SECAM
Input Terminals	;*7	and 1080p compat mm-diameter mini	D-sub 15-pin x 1, HDM ible, PC / AV signal co stereo jack x 1, audio x 1°8, component vido n x 1	ompatible), 3.5 o: RCA pin (L/R)
Output Termina	als*7	3.5 mm-diameter n	nini stereo jack x 1	
Speaker Output	t	10 W + 10 W		
Mounting		VESA (4 points), 600 x 400 mm, M6 screw	VESA (4 points), 400 x 400 mm, M6 screw	VESA (4 points), 400 x 200 mm, M6 screw
Power Supply		100V - 240V AC, 50/60 Hz*9		
LAN terminal		10 BASE-T/100 BAS	E-TX	
Power Consum	ption	270 W	200 W	135 W
Environmental Conditions	Operating Temperature* Operating Humidity	5°C to 35°C 20% to 80% RH (no condensation)		
Dimensions (W (display only)		1,882 x 127 x 1,635 x 96 x 1,422 x 96 x		1,422 x 96 x 877 mm
Weight		79 kg	62 kg	43 kg
Power cord, remote control unit, battery (AAA size) Set-up manual, cable clamp x 2, cable clamp (for p cord), USB cable***10*, eraser, pen tray, pen tray mour screw x 5, touch pen, camera mount, camera mou x 2, camera screw, CD-ROM, SHARP Display Conne stand hole protection cover x 2, blank sticker		y (AAA size) x 2, lamp (for power n tray mounting imera mount screw blay Connect license,		

^{**}UV*A stands for Ultraviolet-induced Multi-domain Vertical Alignment, a photo-alignment technology that ensures uniform alignment of liquid crystal molecules. **Maximum colours of LCD panel. The number of colours that can be displayed simultaneously is 16.77 million arbitrary colours out of 1.07 billion colours. **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. **Excluding the touch sensor part around the LCD panel. **Including anti-glare film on the front. **Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its centre. **Use a commercially available connection cable for PC and other video connections. **St video and compent video are switchable; use the menu to select. **The AC power cord is an inlet type. The cable is bundled (3 pins). **Delease use only this USB cable and no other. If connected via a USB hub, a PC may not recognise the PN-80SCS/70SCS correctly and operation may be unstable.

PN-65SC1

The interactive display for education

PN-65SC1 65" interactive display is the ideal choice for collaborative working in classrooms, training rooms and office meetings. Offering the latest in touchscreen technology alongside innovative features for an enhanced user experience, the **PN-65SC1** will bring any lesson or meeting to life.

Key benefits | PN-65SC1

- 10-point multi-touch technology for a highly-responsive natural touch experience
- Pen-on-Paper natural user experience; it really is as though you're writing with a real pen and paper
- Handwriting recognition for enhanced user experience
- · One-touch freeze frame to freeze displayed content
- Mini Open Pluggable Specification (Mini OPS) platform for easy performance enhancement
- SHARP Touch Viewing software opens files direct from the display without waiting for applications to start
- SHARP Display Connect software supports wireless communication between up to 50 devices for wider collaboration
- Full-HD, 1920 x 1080 resolution 65" display
- Two 10W + 10W built-in speakers
- · Cloud Portal Office option for cloud-based document management



Model		PN-65SC1	
Installation		Landscape	
		65-inch-class (64 ½-inch [163.9 cm] diagonal) TFT LCD	
	Max. Resolution	1,920 x 1,080 pixels	
	Max. Display Colours	16.77 million colours	
	Pixel Pitch (H x V)	0.744 x 0.744 mm	
LCD Panel	Brightness*1	350 cd/m²	
LCD Pallet	Contrast Ratio	5,000:1	
	Viewing Angle (H/V)*2	178°/178° (CR ≥10)	
	Active Screen Area (W x H)	1,428.5 x 803.5 mm (56 ¹ / ₄ " x 31 ⁵ / ₈ ")	
	Response Time	6.5 ms (grey to grey, avg.)	
	Backlight	LED, edge lit	
	Touch Technology	IR (infrared blocking detection method)	
	PC Connection Port	USB (2.0 compliant) (Type B) x 1	
Touchscreen	Power Supply	Supplied from USB port	
	Multi-Touch	10 points	
	Protection Glass	Thickness: 4.1 mm*3 Shock resistance: 130 cm*4	
Touch Pen	Function Button	N/A (passive pen)	
	Video	Analogue RGB (0.7 Vp-p) [75 Ω], HDMI™ DisplayPort™	
Computer	Synchronisation	Horizontal/vertical separation (TTL: positive/negative)	
Input	Plug & Play	VESA DDC2B	
	Power Management	VESA DPMS	
Input Terminals	*5	PC analogue: Mini D-sub 15-pin x 1, HDMI x 4 (HDCP and 1080p compatible, PC / AV signal compatible), DisplayPort (HDCP compatible, PC signal compatible) x 1, 3.5 mm-diameter mini stereo jack x 1, RS-232C D-sub 9-pin x 1	
Output Termina	ils*5	3.5 mm-diameter mini stereo jack x 1	
USB Hub Functi	on	USB 2.0 (type A) x 2	
Mini OPS Expan	sion Slot	12 V, 2.4 A (power supplied when expanding the functions with an optional part)	
Speaker Output	1	10 W + 10 W	
Mounting		VESA (4 points), 400 x 400 mm, M6 screw	
Power Supply*6		100 V – 240 V AC, 50/60 Hz	
Power Consum	ption	205 W	
Environmental		5°C to 35°C	
Conditions	Operating Humidity	20% to 80% RH (no condensation)	
Dimensions (W (display only)	x D x H)	1,521 x 99 x 952 mm (59 ⁷ /s" x 3 ⁷ /s" x 37 ¹ /2")	
Weight		57.5 kg (126.8 lbs)	
Main Accessories		AC power cord, remote control unit, battery (AAA size) x 2, set-up manual, blank sticker, cable clamp x 3, USB cable ^{x 1} , pen tray, pen tray mounting screw x 2, touch pen, camera mount, camera mount screw x 2, camera screw, CD-ROM, SHARP Display Connect license	

PN-50TC1/40TC1

The BIG PAD for huddle spaces

Sharp's BIG PAD range makes meetings and communications smoother and more productive. Reinforcing the line-up are the **PN-50TC1/40TC1**, which offer a fresh approach to boosting the dynamism of business and educational organisations. The Pen-on-Paper natural user experience promotes collaborative work, ideal in compact huddle meeting spaces where small workgroups of two to six people meet in the growing majority of modern meetings. Making the most of huddle spaces can transform communications and accelerate business to a whole new level.

Key benefits | PN-50TC1/40TC1

- Interactive display for small huddle meeting areas
- Pen-on-Paper natural user experience; it really is as though you're writing with a real pen and paper
- 50"/40" TFT LCD
- Smooth glass surface for best in class tactile comfort
- 10-Point PCAP capacitive touch for confident and intuitive interactivity
- HDMI and DisplayPort connectors
- Flat bezel design for a smart tablet-like look
- Mini OPS extension slot for even more integrated application flexibility and performance
- SHARP Pen software including new sheet extension function
- Multi-device BYOD collaboration with SHARP Display Connect



Model		PN-50TC1	PN-40TC1	
Installation		Landscape / Portrait / Face-up)	
		50-inch-class widescreen (49 ½ inch [125.7 cm] diagonal) TFT LCD	40-inch-class widescreen (39 ½ inch [100.3 cm] diagonal) TFT LCD	
	Max. Resolution	1,920 × 1,080 pixels		
	Max. Display Colours	16.77 million colours		
	Pixel Pitch (H x V)	0.571 x 0.571 mm	0.457 x 0.449 mm	
LCD Panel	Brightness*1	400 cd/m ²	300 cd/m ²	
	Contrast Ratio	5,000:1		
	Viewing Angle (H/V)	178°/178° (CR ≥10)		
	Active Screen Area (W x H)	1,095.8 x 616.4 mm (43 ½" x 24 ½")	878.1 x 485.3 mm (34 ⁹ / ₁₆ " x 19 ¹ / ₈ ")	
	Response Time	9.5 ms (grey to grey, avg.)		
	Backlight	LED, edge lit		
	Touch Technology	Capacitive touch		
	PC Connection Port	USB (2.0 compliant) (Type B)	(1	
Touchscreen	Power Supply	Supplied from main unit		
	Multi-Touch	10 points		
	Protection Glass	Thickness: 3.2 mm* ² Shock resistance: 130 cm* ³	Thickness: 2.5 mm* ² Shock resistance: 130 cm* ³	
	Video	Analogue RGB (0.7 Vp-p) [75Ω], HDMI, DisplayPort		
Computer	Synchronisation	Horizontal/vertical separation (TTL: positive/negative)		
Input	Plug & Play	VESA DDC2B		
	Power Management	VESA DPMS		
Input Terminals*4		PC analogue: Mini D-sub 15-p 1080p compatible, PC/AV sign DisplayPort (HDCP compatibl 3.5 mm-diameter mini stereo	al compatible), e, PC signal compatible) x 1,	
Output Termina	ıls*4	3.5 mm-diameter mini stereo	jack x 1	
Input/Output Te	erminals*4	LAN port (10Base-T/100Base-	TX) x 1	
USB Hub Functi	on	USB 2.0 (Type A) x 2		
Expansion Slot		12 V, 2.5 A (power supplied wh with an optional board)	nen expanding the functions	
Speaker Output	t .	10 W + 10 W		
Mounting		VESA (4 points), 400 x 200mm, M6 screw	VESA (4 points), 200 x 200mm, M6 screw	
Power Supply		100V - 240V AC, 50/60 Hz*5		
Power Consump	ption	105 W	89W	
Environmental Conditions Operating Temperature*6		5°C to 35°C		
	Operating Humidity	20% to 80% RH (no condensa	tion)	
Dimensions (Water (display only)	x D x H)	1,151 x 68.5 x 686 mm	939 x 65 x 546 mm	
Weight		28 kg	17.5 kg	
Main Accessories		AC power cord, remote control, set-up manual, cable clamp cable*6, logo sticker, pen tray, installation operation label, d Connect license x 1	x 3, camera mount, USB touch pen, CD-ROM, portrait	

^{**}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. Figures refer to the brightness of the LCD panel component. The brightness of the product itself may be less than this. **Including film. **Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its centre. **Use a commercially available connection cable for PC and other video connections. **Ine AC power cord is an inlet type. The cable is bundled (3 pins). **For face-up installation is 5°C to 30°C. **To use the touch panel, connect the bundled USB cable to the computer. If connected via a USB hub, the PC may not recognise the PN-50TC1/40TC1 correctly and operation may be unstable.

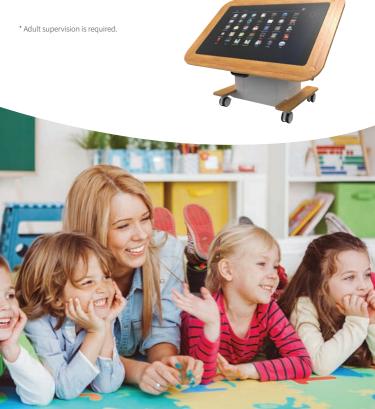
Early Learning Table

The BIG PAD that makes learning fun

The Sharp BIG PAD **Early Learning Table** offers a fun and intuitively easy way for children to play, learn and interact with each other using a variety of pre-installed games, puzzles and learning apps. Our (PN-40TC1) 40" BIG PAD interactive display is built into the wooden trim of a completely mobile and tiltable table. So it is an ideal learning tool for a wide range of educational environments, such as nurseries, pre-schools, kindergartens, and creches. Or it can even be used to entertain children in the public areas of retail stores, restaurants, play areas and waiting rooms*.

Key benefits | Early Learning Table

- · A natural 'Pen-on-Paper' experience with 10-point PCAP touch technology
- Works for up to 11 hours using a built-in rechargeable battery pack
- Access a wide range of educational content and sensory apps with an integrated Android PC
- Easily stream music, cartoons or films from the Internet using built-in wireless connectivity
- Quickly attach other devices, like speakers or a printer, using Bluetooth connectivity



Model		Early Learning Table	
General	Portability	Castor wheels with lock system support (radius 75mm) Handle for moving	
	Screen orientation	Face-up/Tilt	
	Dimension	Display (Verticality): W 1,121mm x D 728mm x H 953mm Display (Horizontal): W 1,121mm x D 728mm x H 640mm	
	Weight	88.5kg	
	Speaker Output	10W + 10W	
Environmental Conditions	Operating Temperature*4	0°C to 40°C	
	Operating Humidity	10% to 90% RH (non-condensing)	
	PN-40TC1	40-inch-class widescreen (39 ¹ / ₂ -inch [100.3 cm] diagonal) TFT LCD	
	Max. Resolution	1,920 x 1,080 pixels	
	Max. Display Colours	16.77 million colours	
	Pixel Pitch (H x V)	0.457 x 0.449 mm	
	Max. Brightness	300 cd/m²	
LCD Panel	(average)*1	F 000 - 1	
	Contrast Ratio	5,000:1	
	Viewing Angle (H/V) Active Screen Area	178°/178° (CR≥10)	
	(W x H)	878.1 x 485.3 mm (34 ⁹ / ₁₆ " x 19 ¹ / ₈ ")	
	Response Time	9.5 ms (grey to grey, avg.)	
	Backlight	LED, edge lit	
	Touch Technology	Projected Capacitive touch (PCAP)	
Touchscreen	PC Connection Port	USB (2.0 compliant) (Type B) x 1	
Toucnscreen	Multi Touch	10 points	
	Protection Glass	Thickness: 2.5 mm ^{★2} Shock resistance: 130 cm ^{★3}	
	Model	Powerhero WPSE-800	
	Rated capacity	800VA	
	Interface	LED graphic	
	Voltage	140-275 Vac	
	Frequency	45-65 Hz	
Battery	Output Voltage	220VAC ±3% for inverter; 190V-245V for avr	
Duttery	Frequency	$50/60~\text{Hz} \pm 0.3\text{Hz}$, subject to the main	
	Wave form	Pure sine wave	
	Wave distortion	≤3%	
	Protection	Overload/ high temperature/ output high voltage. Output low voltage/ battery low voltage/ short circuit/ over-charge/ over- discharge/ reversed polarity (optional)	
PC Android System	OS	Android	
	CPU	ARM Cortex Octa Core	
	Memory	2GB RAM	
	Storage	16GB	
	Wireless	Bluetooth; Dual Band 2.4GHz/5GHz WiFi, IEEE 802.11 b/g/n/ac	
	Miracast	Yes	
	LAN	RJ45	
	Power	5V, 2.3A	

Not available in all markets - please contact your Sharp representative for more information.

^{*}¹ 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. Figures refer to the brightness of the LCD panel component. The brightness of the product itself may be less than this. *² Including film. *² Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its centre. *⁴ For face-up installation is 0 * C to 40 * C.

Advanced Multi-Board software

Multi-touch, multi-user, multi-display experience with BIG PADs PN-80TC3A and PN-80TH5/70TH5

Sharp's **Advanced Multi-Board** driver solution allows an existing standard Multi-Board setup of either two or three BIG PADs to take full advantage of multi-user, multi-touch software applications. With a fully interactive display wall that's up to 5.3 metres long, the **Advanced Multi-Board** driver option offers an easy to setup and easy to use interactive performance that's the only one of its kind available today.

Key benefits | Advanced Multi-Board Software

- Easy to setup and to configure a powerful BIG PAD interactive wall solution
- Pen-on-Paper natural user experience; it really is as though you're writing with a real pen and paper
- Supports either 2x or 3x BIG PAD interactive displays
- Supports simultaneous multi-user, multi-display and 10-point multi-touch
- Advanced software driver for smooth and highly responsive capacitive (PCAP) touch performance
- Enhanced productivity, data sharing and collaboration for fast decision making
- Enhanced learning effect with improved presentation of data intensive material



Minimum PC specification to run Advanced Multi-Board

Model	Advanced Multi-Board software	
Operating System	Professional 64	
Memory (RAM)	16 GB	
Processor	Intel*Core™ i7 processor	
Graphics Card	2x or 3x DisplayPort outputs Chipset must support "Mosaic" or "Collage" function	



Optimised Video Collaboration

Remote collaboration anywhere anytime

Even the best planned meetings are expensive in time and money and this is especially true when an element of travel is involved. But now there's a way to make any meeting substantially more productive and less expensive. It's called Video Collaboration and Sharp is leading the way with its **Optimised Video Collaboration Solutions**. Built around industry-leading technologies and standards for easy integration.

The core standard components of a **Sharp Optimised Video Collaboration Solution** are a MondoCenter software suite with 121 Premium Dialler on a PC workstation, matched with superb video and audio technology. Together, they let teams or individuals from up to four remote locations connect securely and easily, exploring ideas and exchanging content over video, voice, and file and application sharing. If you add the optional ConX software, you can increase the number of locations from 4 right the way up to 25.

Key benefits | Optimised Video Collaboration

- Remote real-time collaboration
- Effortless client/agency collaboration
- · Distance learning made easy
- Part No.: INMCVCPACK

Optimised





MondoCenter

Processor	Intel® Core i7-4770T, Q87 chipset	
Memory (GB)	8	
Hard Drive (GB)	SSD 120	
LAN	802.3 10/100/1000 Base-T	
Wi-Fi	Dual band 802.11 a/b/g/n MIMO PCIe half mini card, 2.4 GHz and 5 GHz with Intel, AMT support	
Output Connections	VGA, HDMI x 2, 3.5mm stereo audio out x 2, RS232	
Operating System	Windows 10	
Warranty (years)	3	

PTZ RealCam Camera

Video System	HD: 1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25 SD: 480i, 576i	
Zoom	12x optical, 32x digital	
Size (mm)	128.5 x 118 x 156.2	
Net Weight (kg)	0.91	
Video Compression	H.264/MJEPG	
USB	1xUSB3.0: Type B female jack	
Power Connector	JEITA type (DC IN 12V)	
Warranty (years)	3	

Thunder Speakerphone

Connections	Mini-B input, 2.5mm analog audio input, RJ9 x 2 external microphone ports	
Controls	On-hook, off-hook, volume up, volume down, microphone mute, Bluetooth mode	
Audio	6.5-inch woofer, Speaker bandwidth: 200 Hz - 7 kHz, Max output level: 89 dB @ 1	
Power (V DC@A) (max)	5, 2	
Product Dimensions (W x D x H) (mm)	215 x 215 x 50	
Product Weight (kg)	0.8	
Warranty (years)	3	

121 Premium Dialler

Max number of Participants (including the host MondoCenter)	4
SIP Based Calling	Yes
H.323 support	Yes
Browser based Calling	Internet Explorer, Firefox, Chrome, Safari
License Period (years)	3

ConX (Optional License Extensions for 8, 16 or 25 Users)

SIP Based Calling	Yes
H.323 support	Yes
Browser based Calling	Internet Explorer, Firefox, Chrome, Safari
PSTN Audio-only telephones	Yes
License Period (years)	3

SHARP Display Connect

Work smarter with SHARP Display Connect

SHARP Display Connect supports effective and multifaceted communication. On screen content - including handwritten notes and drawings made in real time - can be viewed simultaneously on the BIG PAD and mobile devices*1 such as PCs, tablets, and smartphones, and the Pen-on-Paper natural user experience makes it feel as though you're using a real pen on paper. SHARP Display Connect facilitates interactive presentations, lively discussions, and paperless meetings in both business and educational settings.

Key benefits | SHARP Display Connect

- SHARP Display Connect enables the following interactive functions on BIG PAD and mobile devices connected via wireless LAN:
 - Sharing of on screen content
 - Transfer of files
 - Interactive on screen writing and drawing
 - Remote control of the BIG PAD from mobile devices
- Up to 50 mobile devices*2 can be connected simultaneously
- Files can be exchanged between mobile devices even if they are not connected to the BIG PAD
- Users can capture on screen images and save them on their mobile devices to make personally annotated memos
- SHARP Display Connect also connects two BIG PADs on the same local area network to enable larger scale interactive collaboration



Categories		Data	Notes
Tablets and smartphones		App is available for download with compatible devices only	Install appropriate applications for each file format such as Microsoft Office and Adobe Reader.
PC for BIG PAD	OS	Windows* 7 / Windows 8, 8.1 and 10	Install appropriate applications for each file format such as Microsoft Office and Adobe Reader. Install SHARP Pen software version 2.5.2.6 or later to enable exclusive functions with SHARP Display Connect. SHARP Display Connect requires a PC connected to a Sharp BIG PAD by USB.
	CPU	Celeron 1.6GHz / AMD Sempron 1.6GHz or faster (Recommended: Core2 Duo 2.8GHz / AMD Athlon II X2 2.8GHz or faster)	
	Memory	2GB	
	Hard disk (available free space)	100 MB	
	USB	1.1 or later	
	Screen resolution (video output)	1920 x 1080 minimum resolution	
Simultaneous device connections		50	
Network		WLAN required	

 $^{^{*1}}$ OS requirements: PCs: Windows * 7, Windows * 8/8.1; Tablets: Windows * 7, Windows * 8/8.1, Android, iOS; Smartphones: Android, iOS. *2 Connecting * 20 or more mobile devices requires at least two LAN access points. Software requires appropriate network and device configuration to run correctly.



8K Ultra-HD

Contents

8M-C80AX1E - **NEW**

36-37

8K Ultra-HD

Our new high precision professional 8K display is the ultimate display for image detail. Whether you're presenting to an audience or working on designs, you need crisp displays to bring your ideas sharply to life.

8M-C80AX1F

A new standard in image precision

Sharp's **8M-C80AX1E** 80" LCD display is at the cutting edge of professional display capabilities. Its ultra clear 8K (7680 x 4320 pixels) resolution delivers stunning image precision with unsurpassed detail and greater legibility even in fine text. It also incorporates a range of leading edge technologies designed to deliver superior realism and colour accuracy. And a built in USB Media Player enables easy set-up or standalone use without the cost and complexity of additional equipment. So, whether you're presenting eye-catching images or working on complex designs, you can quickly bring everything to life.

Key benefits | 8M-C80AX1E

- Stunning image precision with an 8K (7680 x 4320 pixels) display 4x the resolution of 4K
- More realistic and immersive viewing with the 800 cd/m² brightness and HDR (High Dynamic Range)
- Peak brightness of 4.000 cd/m²
- Exceptional clarity with a Local Dimming backlight system that extends the visible contrast ratio
- Enhanced colour accuracy with a 10-Bit extended colour range that creates up to 1.07 billion colour possibilities in every pixel
- USB Media Player for instant playback of 4K video and 8K static images without any additional equipment



Model		8M-C80AX1E	
	Native Resolution (Pixels)	7860 x 4320	
	Diagonal Size (inches/ cm)	80"/ 204.4	
	Aspect Ratio	16:9	
	Local Dimming LED Backlight control system	Yes	
	Backlight	LED	
	Display Colours	10 Bit	
	CIE1931 xy Cover Ratio vs ITU-R BT.2020	Yes	
	CIE1976 uv Cover Ratio vs ITU-R BT.2020	Yes	
	Hybrid Log Gamma (HLG)	Auto/HLG/PQ/SDR	
	HLG Standard HDR	Yes (8K input only)	
General	BD Standard Perceptual Quantiser (PQ) HDR	Yes (inputs 1&7)	
	HDR10 (PQ)	Yes (inputs 1&7)	
	Brightness (cd/m²)	800 (Peak Brightness 4.000)	
	Dynamic / Static Contrast	TBC / 3000.1	
	Response Time (grey to grey avg) ms	8	
	Built in Speakers (W)	2 x 10W + 15W Subwoofer 2.1	
	8K Input	1x HDMI2.1 (Spring 2019), 4x HDMI 2.0a	
	2K and 4K Input	4 x HDMI	
	Cabinet Colour	Black	
	Operating Voltage (ACV) / Frequency (Hz)	240/50	
	Power Consumption (W) (Operating MAX)	TBC	
	Heat Dissipation (BTU/h) MA	TBC	
Media Player	USB player for 8K still image	JPG/JPEG/BMP/PNG	
	USB player for 4K video	H256/H.264;30p	
	Product Dimensions without Stand (W/H/D) mm	1810 x 1055 x 113 (without stand)	
Weights and Measures	Product Weight without Stand (Kg)	TBC	
	Mounting position	Landscape	
	Mounting (VESA/Pitch mm)	TBC	

 $^{^{\}star_1}$ Sharp 8C-B60A 8K professional camcorder available in Asia at time of release.



4K Ultra-HD

Contents

PN-HW861/HW751/HW651/HW551/HW501/HW431 - NEW	40-43
PN-HB851/HB751/HB651/HM851/HM751/HM651 - NEW	44-47
PN-H801/H701	48-49

4K Ultra-HD

Our range of ultra high definition 4K displays are aimed at bringing the finer detail to life without sacrificing size. Designed for specialised applications such as way-finding, CAD/CAM, simulation and retail signage - the range has evolved to include a new wide gamut capability for a deeper range of colour.

PN-HW861/HW751/HW651/HW551/ HW501/HW431

Slim and lightweight professional displays

Sharp's **PN-HW** range of professional displays offer a wide range of screen sizes, from 43" to 86". With a slim and lightweight design and choice of installation methods, including standalone operation, they are the ideal choice for both retail and corporate organisations. Their 4K Ultra HD resolution brings content bursting into life with superbly realistic detail and depth – and can display even the most complex information with exceptional clarity. So whether it's for premium retail signage, executive boardrooms or specialist applications, such as CAD, there is a display to meet your needs.

Key benefits | PN-HW861/HW751/HW651/HW551/HW501/HW431

- Exceptionally clear text & images with true 4K Ultra HD resolution (3840 x 2160)
- Ultra realistic and vivid colours using innovative LED backlighting
- Non-stop, high performance during normal business hours with 16/7 operation
- · Use almost anywhere with a slim and stylish, lightweight design
- · Flexible installation in either portrait or landscape
- · 'Plug and play' content using the built-in USB media player
- Added audio impact with 10W +10W built-in speakers
- Simple, centralised control through your own system with a choice of LAN. RS-232C and 3x HDMI interfaces



Model		PN-HW861	PN-HW751	PN-HW651		
Installation		Landscape / Portrait				
		86" Class [85 5/8 inch (217.426cm) diagonal] TFT LCD	75" Class [74 ½ inch (189.273 cm) diagonal] TFT LCD	65" Class [64 ½ inch (163.896 cm) diagonal] TFT LCD		
	Max. Resolution		3,840 x 2,160 pixels			
	Max. Display Colours	1.07 billion colors				
LCD Panel	Pixel Pitch (H x V)	0.4935 mm (H) × 0.4935 mm (V)	0.429 mm (H) × 0.429 mm (V)	0.372 mm (H) × 0.372 mm (V)		
	Max Brightness*2	4000	d/m²	350cd/m ²		
	Contrast Ratio	120	0:1	4000:1		
	Viewing Angle (H/V)		178°/178° (CR ≥10)			
	Active Screen Area (W x H)	1.895.04 x 1.065.96 mm	1.647.36 x 926.64 mm	1.428.48 x 803.52 mm		
	Response Time	8ms (grey to grey, avg.)				
	Backlight	LED, edge lit		LED, full array		
			1x Analog Mini D-Sub 15 Pin, 3x HDMI (HDMI2.0, HDCP2.2, HDMI CEC)			
Input	Audio	3.5mm mini stereo jack x 1				
Terminals	Serial (RS-232C)	D-sub 9 pin x 1				
	LAN Terminal	10Base-T/100Base-TX x1				
-	USB Port	USB 2.0 cc	ompliant (For Media	ia Player) x 1		
Output Terminals	Audio	RCA pin (L/R) x 1				
Plug & Play			VESA DDC2B			
Power Manager	nent	VESA DPMS				
Speakers			10W + 10W			
Power Requirer	nent	,	AC 100-240V, 50/60 H	Z		
Mounting (4 poi	nts)	600 mm x 400mr	n pitch, M6 screw	400 mm x 400mm pitch, M6 screw		
Environmental	Operating Temperature		(0°C to 40°C)			
Conditions	Operating Humidity	20% to 80% (no condensation)		ation)		
Power Consumption (input signal waiting mode / standby mode)		330 W (0.7W / 0.5W)	255 W (0.7W / 0.5W)	205 W (0.7W / 0.5W)		
Dimensions		1.928 x 76 x 1.099 mm	1.680 x 65.5 x 959 mm	1.458 x 82 x 835 mm		
Weight		64 kg	55 kg	27.5 kg		
Main Accessories		AC power cord, remote control unit, battery (AAA size x 2), CD-ROM, set-up manual, cable clamp x 2, logo sticker, USB flash drive cover, USB flash drive cover fixing screw x 2				

 $^{^{*1}}$ The PN-HW861 is available now and all other models coming later 2019. *2 Brightness depends on input mode and other picture settings.

Model		PN-HW551	PN-HW501	PN-HW431		
Installation		Landscape / Portrait				
		55" Class [54 5/8 inch (138.783cm) diagonal] TFT LCD	50" Class [49 ½ inch (125.730cm) diagonal] TFT LCD	43" Class [42 ½ inch (107.986cm) diagonal] TFT LCD		
	Max. Resolution		3,840 x 2,160 pixels			
	Max. Display Colours		1.07 billion colors			
LCD Panel	Pixel Pitch (H x V)	0.315 mm (H) × 0.315 mm (V)	0.2854 mm (H) × 0.2854 mm (V)	0.2451 mm (H) × 0.2451 mm (V)		
	Brightness*2		350cd/m ²			
	Contrast Ratio		4000 : 1			
	Viewing Angle (H/V)		178°/178° (CR≥10)			
	Active Screen Area (W x H)	1.209.6 x 680.4 mm	1.095.84 x 616.41 mm	941.18 x 529.41 mm		
	Response Time	8ms (grey to grey, avg.)				
Backlight			LED, full array			
		1x Analog Mini D-Sub 15 Pin, 3x HDMI (HDMI2.0, HDCP2.2, HDMI CEC)				
Input	Audio	3.5mm mini stereo jack x 1				
Terminals	Serial (RS-232C)	D-sub 9 pin x 1				
	LAN Terminal	10Base-T/100Base-TX x1				
	USB Port	USB 2.0 cc	ompliant (For Media	Player) x 1		
Output Terminals	Audio		RCA pin (L/R) x 1			
Plug & Play		VESA DDC2B				
Power Manager	nent	VESA DPMS				
Speakers		10W + 10W				
Power Requirer	nent	F	AC 100-240V, 50/60 H			
Mounting (4 poi	nts)	400 mm x 200mn	n pitch, M6 screw	200 mm x 200mm pitch, M6 screw		
Environmental	Operating Temperature		(0°C to 40°C)			
Conditions	Operating Humidity	20%	to 80% (no condensa	ation)		
Power Consumption (input signal waiting mode / standby mode)		150 W (0.7W / 0.5W)	130 W (0.7W / 0.5W)	115 W (0.7W / 0.5W)		
Dimensions		1.239 x 62 x 711.5 mm	1.124 x 69 x 646.5 mm	968 x 61 x 559 mm		
Weight		16 kg	13 kg	9 kg		
Main Accessories		AC power cord, remote control unit, battery (AAA size x 2), CD-ROM, set-up manual, cable clamp x 2, logo sticker, USB flash drive cover, USB flash drive cover fixing screw x 2				

 $^{^{*1}}$ The PN-HW861 is available now and all other models coming later 2019. *2 Brightness depends on input mode and other picture settings.



PN-HB851/HB751/HB651/HM851/ HM751/HM651

Bigger, smarter displays that ensure your messaging always stands-out

With an exceptionally clear 4K resolution, wireless connectivity and integrated System on Chip (SoC) intelligence this range of smart large format displays combines outstanding performance and flexibility. Their powerful stand-alone operation and ability to run many different partner applications makes them ideal for a wide variety of applications, such as signage and meeting rooms. In particular, the 16/7 operation of the PN-HB851/HB751/HB651 is great for shopping centres or large corporate offices, while the PN-HM851/HM751/HM651 can display critical information all day, every day in environments such as transportation hubs or service station restaurants.

Key benefits | PN-HB851/HB751/HB651/HM851/HM751/HM651

- Ultra clear information with a large format 4K Ultra HD (3840 x 2160) display
- · Wireless connectivity with integrated Wi-Fi and Bluetooth
- Powerful and flexible stand-alone operation with an embedded Android SoC
- Flexible performance upgrade with Mini OPS extension slot
- Portrait, landscape format orientation and face-up installation
- Slim bezel design with audio speakers
- Pre-installed applications on the Android SoC
- · Ready for Sharp Open Architecture Platform and SHARP Content Distributor



Model		PN-HB851 PN-HB751 PN-HB651				
Installation	Installation		lscape / Portrait / Fa	ce-up		
		85" Class	75" Class	65" Class		
	LED Backlight		Direct			
	Native Resolution, Pixel		3840 x 2160			
	Max. Display Colour		10,7 billion			
	Colour Processing	10 Bit				
	Brightness in cdm ²	350				
LCD Panel	Static Contrast	5.000:1				
	Viewing Angle (H/V) (CR ≥10)		178°/178°			
	Operating Time		16/7			
	Response Speed in ms		9.5			
	Pixel Pitch in mm	0.488 x 0.488	0.43 x 0.43	0.372 x 0.372		
Slot	Mini OPS Slot		1	<u> </u>		
	Analog Input PV (VGA)		1			
	HDMI2.0; HDMI CEC; HDCP2.2; HDR10		2			
Input	Display Port 1.2 Input	1				
	Audio Input 3,5 mm mini Jack	1				
	RS232C Input Sub-D	1				
	Display Port Out (Loop)	1				
Output	Audio Out 3,5 mm moni Jack	1				
	RS232C Out 3,5mm mini Jack	1				
	SD Card Slot		1			
	USB Type A	3				
	LAN	1				
Android	System on Chip (SoC)	Rockchip RK3399				
Board	Memory	4GB				
	Storage		32GB			
	Built-in Wireless	WiF	i 802.11ac and Bluet	ooth		
	OS	Android 7.1				
Power Consur	mption	370 W	320 W	260 W		
Stand-By Pow	ver	0.5				
Ambient Temperature Landscape/Portait		0°C - 40°C				
Ambient Temperature Face-Up		0°C - 30°C				
Metal Cabinet			yes			
VESA Mounting		600 x 400	600 x 400	400 x 400		
Bezel Width in mm Top/Side/Bottom			13/11/11			
Dimensions (V	N x D x H)	1902 x 1083 x 1676 x 954 x 1455 x 830 x 89 mm 88 mm 88 mm		1455 x 830 x 88 mm		
Weight		45 kg	37 kg	29 kg		

Model		PN-HM851 PN-HM751 PN-HM651					
Installation		Land	lscape / Portrait / Fa	ce-up			
		85" Class	75" Class	65" Class			
	LED Backlight		Direct				
	Native Resolution, Pixel		3840 x 2160				
	Max. Display Colour		10,7 billion				
	Colour Processing		10 Bit				
	Brightness in cdm ²		500				
LCD Panel	Static Contrast		5.000:1				
	Viewing Angle (H/V) (CR ≥10)		178°/178°				
	Operating Time		24.7				
	Response Speed in ms		9.5				
	Pixel Pitch in mm	0.488 x 0.488	0.43 x 0.43	0.372 x 0.372			
Slot	Mini OPS Slot		1				
	Analog Input PV (VGA)		1				
	HDMI2.0; HDMI CEC; HDCP2.2; HDR10		2				
Input	Display Port 1.2 Input	1					
	Audio Input 3,5 mm mini Jack	1					
	RS232C Input Sub-D	1					
	Display Port Out (Loop)	1					
Output	Audio Out 3,5 mm moni Jack	1					
	RS232C Out 3,5mm mini Jack	1					
	SD Card Slot		1				
	USB Type A	3					
	LAN	1					
Android	System on Chip (SoC)	Rockchip RK3399					
Board	Memory	4GB					
	Storage		32GB				
	Built-in Wireless	WiF	i 802.11ac and Bluet	ooth			
	OS		Android 7.1				
Power Consum	ption	370 W	320 W	260 W			
Stand-By Powe	er	0.5					
Ambient Temperature Landscape/Portait		0°C - 40°C					
Ambient Temperature Face-Up			0°C - 30°C				
Metal Cabinet			yes				
VESA Mounting		600 x 400	600 x 400	400 x 400			
Bezel Width in mm Top/Side/Bottom			13/11/11				
Dimensions (W	/ x D x H)	1902 x 1083 x 89 mm	1676 x 954 x 88 mm	1455 x 830 x 88 mm			
Weight 45 kg		37 kg	29 kg				



PN-H801/H701

Sized for impact, styled for detail

The **PN-H801/H701** boasts an impressive level of image quality that allows it to display all manner of content, from detailed text to textured graphics. With four times the resolution of full-HD, the **PN-H801/H701** delivers all the detail, depth, and clarity that the content creator intended. The LED backlight supports a wide colour gamut for extended colour range. This combined with the panels advanced picture quality to deliver rich and vivid images for more natural looking visuals and images. Compared to a conventional large format display model, the **PN-H801/H701** has an approximately 20% larger sRGB colour gamut range (area ratio).

With a choice of landscape or portrait installation this UHD 4K display is perfect for retail, meeting rooms and control centres.

Key benefits | PN-H801/H701

- 80"/70" diagonal screen size
- 4K Ultra-HD, 3840 x 2160 with 60hz
- Wide gamut colour for next generation colour performance
- Integrated 4K USB media player
- · Latest HDMI connectivity for 4K with 60hz
- Solid, stylish and slim bezel design
- · 24/7 Operation
- Portrait and landscape installation



Model		PN-H801	PN-H701	
Installation		Landscape/Portrait		
		80-inch-class (204.4 cm diagonal) TFT LCD	70-inch-class (176.6 cm diagonal) TFT LCD	
	Max. Resolution	3,840 x 2,160 pixels		
	Max. Display Colours	1.06 billion colours	16.77 million colours	
	Pixel Pitch (H x V)	0.464 x 0.464 mm	0.401 x 0.401 mm	
LCD Panel	Brightness*1*2	440 cd/m²		
200 1 4.101	Contrast Ratio	4,000:1	3,000:1	
	Viewing Angle (H/V)	176°/176° (CR ≥10)		
	Active Screen Area (W x H)	1,781.76 x 1002.24 mm	1,538.9 x 865.6 mm	
	Response Time	6 ms (grey to grey, avg.)		
	Backlight	LED, full array	LED, edge lit	
	Video	HDMI, Analogue RGB		
	Synchronisation**	Horizontal/vertical separation	n (TTL: positive/negative)	
Computer Input	Plug & Play	VESA DDC2B		
	Input Terminals*³	HDMI x 4: (HDCP1.4 compatible: HDMI 1 – HDMI 3), (HDCP2.2 compatible: HDMI 4), (ARC compatible: HDMI 1), (MHL compatible: HDMI 4), Mini D-sub 15-pin x 1, RS-232C x 1***, USB x 1 (photo, video, music)*6, 3.5 mm-diameter mini stereo jack x 2		
	Output Terminals*3	Digital audio output (optical) x 1, 3.5 mm-diameter mini stereo jack x 1		
Input/Output Te	erminals*3	LAN: 10Base-T/100Base-TX x 1		
Built-in Speake	rs	10 W + 10 W		
Internal Memor	у	400MB		
Mounting		VESA (4 points), 600 x 400 mm (23 ⁵ / ₈ " x 15 ³ / ₄ ") pitch, M6 screw	VESA (4 points), 400 mm (15 ¾") pitch, M6 screw	
Power Supply		100V – 240V AC, 50/60 Hz		
Power Consump	otion	490 W	270 W	
Environmental	Operating Temperature	0°C to 40°C		
Conditions	Operating Humidity	20% to 80% RH (no condensa	ition)	
Dimensions*7 (W x D x H) (display only)		1,816 x 114 x 1,045 mm	1,559 x 69 x 894 mm	
Weight		54 kg	37 kg	
Main Accessories		Remote control unit x 1, cable clamp x 4, cable clamp (insertion type) x 1, power cord x 1 (3-pin*7), DisplayPort1.2 to HDMI conversion cable x 1, LR-6 battery (AA size) x 2, CD-ROM x 1, setup manual x 1, power cord clamp x 1, USB flash drive cover x 1, vertical sticker (operation panel) x 1, horizontal sticker x 1, RS-232C conversion cable (3.5 mm-diameter mini stereo jack) x 1, USB extension cable x 1		

^{*}¹ 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. *²When installing the monitor in the portrait orientation, and the internal temperature of the monitor rises excessively, the brightness of the backlight automatically decreases in order to prevent a further temperature rise. *²Use a commercially available connection cable for PC and other video connections. *¹Requires the bundled RS-232C conversion cable. *¹Only for command control. *6Supported media formats: JPEG for photos; MP4, M2T3, 3GP, and MOV for videos; and WAV, WMA, MAA, and MP3 for music. *¹ Use a 3-pin compatible power outlet. *¹Sync-on green and composite sync are not supported.



Video Wall

Contents

PN-V701	52-53
PN-V600A/V601A/V602A	54-55

Video Wall

Our PN-V range of video wall displays is dedicated to bringing high-impact visual solutions into many retail and mission-critical application. With a video wall product range including a high brightness 1500cd/m² capability, and with 24/7 quality, the Sharp PN-V displays can be seen in many shopping malls, airports and command & control centres.

PN-V701

The world's largest LCD video wall display

Sharp's **PN-V701** ensures video wall image content reaches even larger audiences. These high impact 70" video wall panels are ideal for luxury retailers or brands who want to have the very best in image quality and almost seamless display design.

Key benefits | PN-V701

- · Largest high impact 70" Sharp video wall display
- Robust and ultra slim bezel for minimum display interruption
- 700 cd/m² max brightness
- UV²A Sharp LCD technology for best 24/7 operation
- 1920 x 1080 resolution
- Signal interfaces: Display Port 1.2 (in + out) 2 x HDMI
- DisplayPort in/out with 4K signal loop through
- HDBaseT Mini OPS option
- · "Out of the box" calibrated with Sharp advanced UCCT technology
- Sharp recalibration software for fast colour maintenance of the video wall using an FLIR camera

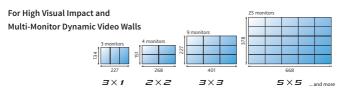


Model		PN-V701
Installation		Landscape/Portrait
		70-inch widescreen (176.6cm diagonal) LCD with UV ² A technology
	Max. Resolution	1,920 × 1,080 pixels
	Max. Display Colours	1.06 billion colours
	Pixel Pitch (H x V)	0.401 x 0.401 mm
LCD Panel	Brightness*1	700 cd/m ²
	Contrast Ratio	4,000:1
	Viewing Angle (H/V)	176°/176° (CR ≥10)
	Active Screen Area (W x H)	1,538.9 x 865.6mm
	Response Time	8 ms (grey to grey, avg.)
	Backlight	LED, full array
	DisplayPort	YES Ver.1.2 (1)
	DVI-D	YES (1)
	PC Analog (Mini D-sub 15-pin)	YES (1)(RGB/Component/Video)
Input	Component Video	YES (Via Mini D-sub 15 pin)
pac	HDMI	YES (2) - HDCP compatible
	RS-232C	YES (1)
	Audio (3.5 stereo mini jack)	YES (1)
	Control Kit Jack	YES (1)
	DisplayPort	YES Ver.1.2 (1)
Output	RS-232C	YES (1)
	Audio (3.5 stereo mini jack)	YES (1)
Input/Output	LAN	10BASE-T/100BASE-TX (×1)
Power Consumption		380W
Environmental Operating Temperature		0°C to 40°C
Conditions	Operating Humidity	20% to 80% RH (no condensation)
Dimensions (W (display only)	x D x H)	1,543.7 x 122 x 870.4 mm
Weight		37.0 kg

PN-V600A/PN-V601A/PN-V602A

For sensational signage on a big scale

Sharp's **PN-V600A/V601A/V602A** is the ideal choice for exciting, nearly seamless multi-monitor configurations. High-impact and impressively sized, this sleek 60" display brings a multitude of digital signage possibilities to public spaces, commercial establishments, transportation hubs, and corporate settings. In business presentations and videoconferences, the **PN-V600A/V601A/V602A** is a dynamic communicator.



Units: cm (measurements are approximations that include the bezel width)

Key benefits | PN-V600A/V601A/V602A

- 60" (152 cm) diagonal screen size
- 1366 x 768 resolution
- Brightness: 450 cd/m² (PN-V600A), 700 cd/m² (PN-V601A), 1500 cd/m² (PN-V602A)
- Bezel only 4.1 and 2.4 mm (6.5 mm between 2 models)
- 24/7 50.000 hours life time
- Contrast Ratio: 4,000:1 (PN-V600A / PN-V601A) / 5,000:1 (PN-V602A)
- 5 x 5 Multi-screen capability (enlargement) internal
- · Module slot system
- UV²A technology (PN-V600A / PN-V601A)

Model		PN-V600A	PN-V601A	PN-V602A	
Installation		Landscape/Portrait			
			60-inch widescreen (152.4 cm diagonal), TFT LCD (152.4 cm diagonal), UV²A LCD		
	Max. Resolution	1,366 x 768 pixels			
	Max. Display Colours	16.77 million colou	16.77 million colours		
	Pixel Pitch (H x V)	0.973 x 0.973 mm			
I CD Down	Brightness*1	450 cd/m²	700 cd/m ²	1,500 cd/m ²	
LCD Panel	Contrast Ratio	4,000:1		1,000,000 : 1 (local dimming set to HIGH) 5,000 : 1 (without local dimming)	
	Viewing Angle (H/V)	176°/176° (CR ≥10)			
	Active Screen Area (W x H)	1,328.8 x 747.1 mm			
	Response Time	6 ms (grey to grey, avg.)			
	Backlight	White LED, Full Array			
	Video	Analogue RGB (0.7 Vp-p) [75], Digital (conforms to DVI 1.0 standards)			
Computer	Synchronisation	Horizontal/vertical	separation (TTL: pos	sitive/negative)	
Input	Plug & Play	VESA DDC2B			
	Power Management	VESA DPMS, DVI DM	IPM		
Video Colour Sy	stem	NTSC (3.58 MHz, 4.4	13 MHz)*¹, PAL, PAL60), SECAM	
Input Terminals	* 2	Standard - PC analogue: Mini D-sub 15-pin x 1, HDMI (1080p compatible) x 1^{-2} , 3.5 mm-diameter mini stereo jack x 1, RS-232C: D-sub 9-pin x 1, Control Kit jack x 1			
		Via Optional PN-ZB02 Board - PC digital: DVI-D 24-pin (HDCP compatible) x 1, PC analogue: BNC x 1*3, Video: BNC x 1, S-Video x 1, Component video: BNC (Y, Cb/Pb, Cr/Pr) x 1*3, Audio: RCA pin (L/R) x 2			
		Standard - Audio: RCA pin (L/R) x 1, RS-232C: D-sub 9-pin x 1			
Output Termina	lls*3	Via Optional PN-ZB02 Board - PC digital: DVI-D 24-pin x 1, External speaker: 10W + 10W (6)			
Input/Output Te	erminals	Via Optional PN-ZB02 Board - LAN port (10Base-T/100Base-TX)			
Built-in Speakers		-			
Power Supply		100V - 240V AC, 50/	60 Hz		
Power Consumption		310 W	480 W	510 W	
Environmental	Operating Temperature	0°C to 40°C			
Conditions	Operating Humidity	20% to 80% RH (no	condensation)		
Dimensions (W x D x H) (display only)		1,335.9 x 149.3 x 754.2 mm			
Weight		41 kg	44 kg		

^{*}¹ Requires separately sold PN-ZB02 Interface Expansion Board. *² For both PC and AV components. *³ The analogue and component BNC terminals are switchable. Use the menu to select.



Professional displays

Contents

PN-B501/B401/M501/M401	58-59
PN-R903A	60-61
PN-R706/R606	62-63
PN-R556/R496/R426	64-65
PN-E803/E703/E603	66-67
PN-Y556/Y496/Y436/Y326	68-69
PN-Q901E/Q801E/Q701E/Q601E	70-71

Professional displays

Our portfolio of professional displays have been developed over many years and reflects a deep understanding of the technical and commercial demands of professional applications. With sizes ranging from 32 inch all the way to 90 inches, the Sharp professional display portfolio is used in many retail signage, way-finding, boardroom, reception areas and where mission critical reliability is paramount.

PN-B501/B401/M501/M401

Create eye-catching visual messaging in almost any environment

The innovative **PN-B and PN-M** range of smart large format displays are suitable for commercial office buildings and retail stores to public spaces and transport hubs.

This range of displays provide the most flexible installations and embedded computer intelligence. They can be easily used in various applications such as signage and meeting rooms, that require installation combinations and powerful stand-alone operation. These solutions are supported by a strong eco-system of partner applications running on an Android based System on Chip (SoC).

The **PN-B501/B401** operate 16/7 – ideal for shopping centres or large corporate offices that can accommodate some downtime – while the **PN-M501/M401** offer 24/7 operation, perfect for transportation hubs or service station restaurants that need to provide mission critical information to customers all day, every day.

Key benefits | PN-B501/B401/M501/M401

- Powerful and flexible stand-alone operation with embedded Android SoC
- Flexible performance upgrade with Mini OPS extension slot
- Portrait, landscape format orientation and unique, face-up, face-down installation
- Slim bezel design with speakers 7W + 7W
- Sharp E-Signage S player pre-installed on Android SoC
- · Sharp Open Architecture Platform



Model		PN-B501	PN-B401	PN-M501	PN-M401	
Installation		Landscape /	Portrait / Face-up	o /Face-down/Ti	Ited/Hanging	
		50" Class [49 ½ inch (125.73cm) diagonal] TFT LCD	40" Class [39 ¹ / ₂ inch (100 .33cm) diagonal] TFT LCD	50" Class [49 ½ inch (125.73cm) diagonal] TFT LCD	40" Class [39 ½ inch (100.33cm) diagonal] TFT LCD	
	Backlight	LED, edge lit				
	Max. Resolution		1,920 x 1,080 pixels			
LCD Panel	Max. Display Colours	16.77 million colours				
LCD Fallet	Pixel Pitch (H x V)	0.5708 x 0.5708 mm	0.45735 x 0.4494 mm	0.5708 x 0.5708 mm	0.45735 x 0.4494 mm	
	Brightness*1 (average)	300cd		450cd		
	Contrast Ratio*1		5,00	0:1		
	Viewing Angle (H/V)		178°/178'	° (CR ≥10)		
	Active Screen Area (W x H)	1,095.84 x 616.41 mm	878.112 x 485.352 mm	1,095.84 x 616.41 mm	878.112 x 485.352 mm	
	Video	Analog RGB (0	.7 Vp-p) [75 Ω], F	HDMI		
Computer	Synchronisation	Horizontal/ver	tical separation nc (TTL: positive	(TTL: positive/	negative),	
Input	Plug & Play	VESA DDC2B				
	Power Management	VESA DPMS, D	VI DMPM	VESA DPMS		
Input	Video	DisplayPort x 1 (PC/AV signal o	, Mini D-sub 15- compatible) x 2	pin x 1, HDMI		
Terminals	Audio	3.5mm mini stereo jack x 1				
	Serial (RS-232C)	D-sub 9 pin x 1				
	Video	DisplayPort x 1				
Output	Audio	3.5mm mini stereo jack x 1				
Terminals	Serial (RS-232C)	D-sub 9 pin x 1				
	OS	Android 4.4				
	CPU	Quad Core (Arm Cortex-A17 processor)				
	Memory	2GB				
Android SoC	Storage	8GB				
	Memory Card Slot	SD card slot (S				
	USB Port	USB 2.0 comp				
	LAN Port		BASE-TX/1000BA			
	Expension Slot	with an option	ver supplied who al part)	en expanding th	ne functions	
	Speaker	7W + 7W	1,0,100,040			
Other	Power Requirement	AC 100 - 240 V, 1.4 A, 50/60 Hz	AC 100 - 240 V, 1.1 A, 50/60 Hz	AC 100 - 240 V,		
	Mounting	VESA (4 points M6 screw), 400 mm x 200	mm (13 ¾" x 7 ?	%") pitch,	
Environmental	Operating Temperature*3	0°C to 40°C				
Conditions	Operating Humidity	20% to 80% RI	H (no condensa	tion)		
Power Consumption (Input signal waiting mode / standby mode)		120 W (19 W / 12 W)	92 W (19 W / 12 W)	TBD	TBD	
Dimensions		1,123 x 68 x 647 mm	902 x 66 x 513 mm	1,123 x 68 x 647 mm	902 x 66 x 513 mm	
Weight		22 kg	15 kg	22 kg	15 kg	
Main Accessories		CD-ROM, set-u	l, remote contro p manual, cable USB flash drive	e clamp x 2, ÚSE	3 flash drive/	

 $^{^{\}star}$ PN-B and PN-M shipping from Q1-Q2 2018.

PN-R903A

Breath taking quality and superb brightness bring images to life on this ultra large 90" LCD

Sharp's **PN-R903A** boasts an ultra-large 90" display that towers above other professional LCD displays in size, quality, and impact. With its full-HD resolution, brilliant image quality, and streamlined profile, this premium professional LCD display was designed to lead the large-format digital signage market. The 700 cd/m² high brightness ensures the **PN-R903A** will deliver unrivalled impact in any environment.

Key benefits | PN-R903A

- 90" (228.7 cm) diagonal screen size
- 700 cd/m²
- 1920 x 1080 resolution
- UV²A technology
- Contrast 4.000:1
- · LED, full array
- 24/7 Operation





Dimensions (W x D x H)

(display only)
Weight

Model		PN-R903A		
Installation		Landscape/Portrait		
		90-inch widescreen (228.7 cm diagonal) UV ² A LCD		
	Max. Resolution	1,920 x 1,080 pixels		
	Max. Display Colours	1.06 billion colours		
	Pixel Pitch (H x V)	1.038 x 1.038 mm		
	Brightness	700 cd/m ²		
LCD Panel	Contrast Ratio	4,000:1		
	Viewing Angle (H/V)	176°/176° (CR ≥10)		
	Active Screen Area (W x H)	1,993.0 x 1,121.0 mm		
	Response Time	6 ms (grey to grey, avg.)		
	Backlight	LED, full array		
	Video	Analogue RGB (0.7 Vp-p) [75], Digital (conforms to DVI 1.0 standards), DisplayPort 1.1		
Computer Input	Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync on green, Composite sync (TTL: positive/negative)		
	Plug & Play	VESA DDC2B		
	Power Management	VESA DPMS, DVI DMPM		
Video Colour Sy	rstem	NTSC (3.58 MHz, 4.43 MHz), PAL, PAL60, SECAM		
Input Terminals	5	DisplayPort x 1, DVI-I x 1, Mini D-sub 15-pin x 1, HDMI x 2 (HDCP compatible), RS-232C x 1, 3.5 mm-diameter mini stereo jack x 2		
Output Termina	als	DisplayPort x 1 (supports video signals only), DVI-D x 1 (HDCP compatible), RS-232C x 1, 3.5 mm-diameter mini stereo jack x 1		
Input/Output To	erminals	LAN x 1		
Built-in Speake	rs	10 W + 10 W		
Power Supply		100V – 240V AC, 50/60 Hz		
Power Consumption		660 W		
Environmental	Operating Temperature	0°C to 40°C		
Conditions	Operating Humidity	20% to 80% RH (no condensation)		

2,055 x 122 x 1,197 mm

75 kg

PN-R706/R606

Heavy duty large format displays with outstanding brightness

Sharp's **PN-R large format displays** are available in a variety of sizes: 70" and 60" and also includes the 55", 49" and 42". Thanks to the near-complete edge-to-edge visual canvas, and high bright 700cd/m² that runs throughout the range, images are brought to life like never before, making the **PN-R** range the perfect choice for heavy duty 24/7 application and demanding installations.

To add maximum impact to your chosen location, PN-R displays will support an incredible range of installation options. Not only can they be installed in portrait and landscape, but also face-up, face-down*, and tilted forward or backward by 90 degrees. These additional installation options are available across the range.

Key benefits | PN-R706/R606

- New generation heavy duty displays with Mini OPS extension slot
- 70" / 60" diagonal screen size
- 700 cd/m²
- 24/7 signage applications
- 1920 x 1080 resolution
- DisplayPort (Daisy Chain) + HDMI + VGA
- · Slim bezel design
- · Portrait, landscape format orientation and unique, face-up installation



Model		PN-R706	PN-R606	
Installation		Landscape / Portrait / Face-up		
		70 -inch widescreen (176.6 cm diagonal) UV ² A LCD	60 -inch widescreen (152.5 cm diagonal) UV ² A LCD	
	Max. Resolution	1,920 x 1,080 pixels		
	Max. Display Colours	1.06 billion colours		
	Pixel Pitch (H x V)	0.802 x 0.802 mm	0.692 x 0.692 mm	
LCD Panel	Brightness	700 cd/m ²		
	Contrast Ratio	4,000 : 1		
	Viewing Angle (H/V)	176°/176° (CR ≥10)		
	Active Screen Area (W x H)	1,538.9 x 865.6 mm	1,329.1 x 747.6 mm	
	Response Time	6 ms (grey to grey, avg.)		
	Backlight	LED, edge lit		
	Video	Analogue RGB (0.7 Vp-p) [75], Digital (conforms to DVI 1.0 standards), DisplayPort 1.1		
Computer Input	Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync on green, Composite sync (TTL: positive/negative)		
	Plug & Play	VESA DDC2B		
	Power Management	VESA DPMS, DVI DMPM		
Video Colour Sy	stem	NTSC (3.58 MHz, 4.43 MHz), PA	L, PAL60, SECAM	
Input Terminals	:	$\label{eq:DisplayPortx1} DisplayPortx1, DVI-Ix1, Mini D-sub 15-pin x1, HDMI x2 \\ (HDCP compatible), RS-232C x1, 3.5 mm-diameter mini \\ stereo jack x2$		
Output Termina	ıls	DisplayPort x 1 (supports video signals only), DVI-D x 1 (HDCP compatible), RS-232C x 1, 3.5 mm-diameter mini stereo jack x 1		
Input/Output To	erminals	LAN x 1		
Built-in Speaker	rs	10 W + 10 W		
Power Supply		100V - 240V AC, 50/60 Hz		
Power Consumption		270 W 200 W		
Environmental Operating Temperature		0°C to 40°C		
Conditions	Operating Humidity	20% to 80% RH (no condensation)		
Dimensions (Water (display only)	x D x H)	1,578 x 39.4 x 916 mm	1,378 x 39.4 x 794 mm	
Weight		43 kg	32 kg	

^{*} Not PN-R606/706.

PN-R556/R496/R426

The heavy duty range for high impact demanding professional signage

Sharp's **PN-R range of LFDs** are available in a variety of sizes: 42", 49" and 55". Thanks to the near-complete edge-to-edge visual canvas, and high bright 700cd/m² that runs throughout the range, images are brought to life like never before, making the PN-R range the perfect choice for heavy duty and demanding installations.

To add maximum impact to your chosen location, **PN-R** displays will support an incredible range of installation options. Not only can they be installed in portrait and landscape, but also face-up, face-down and tilted forward or backward by 90 degrees. These additional installation options are available across the range.

Made for professional, around the clock, 24/7, demanding signage use, with a sleek and stylish design that won't detract from the focus of your message, the PN-R range of high-end, dependable displays have been built with the highest quality materials and are designed to fit beautifully into any installation and digital signage requirement.

Key benefits | PN-R556/R496/R426

- Latest generation of heavy duty displays with Mini OPS extension slot, with new PC and HDBaseT modules
- 55" / 49" / 42" diagonal screen size
- 700 cd/m²
- 24/7
- 1920 x 1080 resolution
- DisplayPort (Daisy Chain) + HDMI + VGA
- Slim bezel design
- Portrait, landscape format orientation and unique, face-up, face-down installation



Model		PN-R556	PN-R496	PN-R426		
Installation		Landscape / Portrait / Face-up / Face-down				
		55-inch widescreen (138.78cm diagonal) TFT LCD	49-inch widescreen (123.20cm diagonal) TFT LCD	42-inch widescreen (106.47cm diagonal) TFT LCD		
	Max. Resolution	1,920 x 1,080 pixels				
	Max. Display Colours	1.07 billion colours				
	Pixel Pitch (H x V)	0.630 x 0.630 mm	x 0.630 mm 0.559 x 0.559 mm 0.483 x 0.483 i			
LCD Panel	Brightness*1	700 cd/m ²				
	Contrast Ratio	1,300:1				
	Viewing Angle (H/V)	178°/178° (CR ≥10)				
	Active Screen Area (W x H)	1,209.6 x 680.4 mm	1,073.8 x 604.0 mm	927.94 x 521.96 mm		
	Response Time	8 ms (grey to grey, a	avg.)			
	Backlight	LED, edge lit				
	Video	Analogue RGB (0.7 compliant), Display	Vp-p) [75Ω], Digital (C Port 1.2, HDMI	OVI 1.0 standard-		
Computer Input	Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync on green*2, Composite sync (TTL: positive/negative)*2				
·	Plug & Play	VESA DDC2B				
	Power Management	VESA DPMS, DVI DMPM				
Input Terminals*3		$\begin{array}{l} \text{DisplayPort} x 1, \text{DVI-D} 24\text{-pin} (\text{HDCP compatible}) x 1, \\ \text{Mini D-sub 15-pin} x 1, \text{HDMI} (\text{PC/AV signal compatible}) x 2, \\ \text{RS-}232C x 1, 3.5 \text{mm-diameter mini stereo} \text{jack} x 1 \\ \end{array}$				
Output Termina	als*3	DisplayPort x 1, 3.5 RS-232C x 1	mm-diameter mini s	tereo jack x 1,		
Input/Output To	erminals*3	LAN: 10Base-T/100Base-TX x 1				
Power Supply T	erminal	5 V, 2 A (5V, 500 mA when the expansion slot is used) (USB type-A connector)				
Expansion Slot		12V, 2.4 A (power supplied when expanding the functions with an optional part)				
Built-in Speake	rs	10 W + 10 W				
Mounting		VESA (4 points), 400 mm pitch, M6 screw VESA (4 points), 200 mm pitch, M6 screw				
Power Consumption		175 W	155 W	135 W		
Environmental Operating Temperature*4		0°C to 40°C				
Conditions	Operating Humidity	20% to 80% RH (no	condensation)			
Dimensions (W x D x H) (display only)		1,231 x 57 x 702 mm	1,095 x 57 x 626 mm	949 x 57 x 543.5 mm		
Weight		25 kg	19.5 kg	15.5 kg		
Main Accessories		AC power cord, remote control unit, battery (AAA size \times 2), CD-ROM, set-up manual, cable clamp \times 2, ceiling mounting bracket \times 4, ceiling mounting bracket \times 4, ciling mounting bracket fixing screw \times 4, logo sticker				

^{*}¹Brightness 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. *²D-sub input terminal only. *³Use a commercially available connection cable for PC and other video connections. *⁴When using the monitor laying flat on a surface (when the monitor is tilted 20 degrees or more upward or downward from the perpendicular in relation to a level surface) the ambient temperature must be within the range of 0°C to 30°C. Temperature condition may change when using the monitor together with the optional equipment recommended by Sharp. In such cases, please check the temperature condition specified by the optional equipment.

PN-E803/E703/E603

The slimline LCD displays that meet a diverse range of signage needs

These 70" and 60" Sharp displays combine full-HD image quality, stylishly thin profiles, and energy efficiency to create appealing professional signage solutions for a wide range of applications. With a sleek design, round-the-clock operation, and supported by landscape and portrait installation modes, these displays offer an amazing degree of flexibility. In hotel lobbies, conference rooms, retail spaces, and elsewhere, the PN-E803/E703/E603 will grab and keep the attention of your target audience.

Key benefits | PN-E803/E703/E603

- 80" (203,2 cm) diagonal screen
- 70" (176.6 cm) diagonal screen size
- 60" (152.5 cm) diagonal screen size
- 1920 x 1080 resolution
- 470 cd/m² / 450 cd/m²
- UV²A technology
- Slim bezel design
- Contrast 5,000:1 / 4,000:1
- · LED full array / LED, edge-lit
- 24/7 Operation





Model		PN-E803	PN-E703	PN-E603		
Installation		Landscape / Portrait				
		80-inch widescreen (203.2 cm diagonal) UV ² A LCD	70 -inch widescreen (176.6 cm diagonal) UV ² A LCD	60 -inch widescreen (152.5 cm diagonal) UV ² A LCD		
	Max. Resolution	1,920 x 1,080 pixels				
	Max. Display Colours	1.06 billion colours				
	Pixel Pitch (H x V)	0.923 x 0.923 mm	0.802 x 0.802 mm	0.692 x 0.692 mm		
LCD Panel	Brightness*1	470 cd/m ²	470 cd/m² 450 cd/m²			
	Contrast Ratio*2	5,000 : 1	4,000 : 1			
	Viewing Angle (H/V)	176°/176° (CR ≥10)				
	Active Screen Area (W x H)	1,771.2 x 996.3 mm	1,538.9 x 865.6 mm	1,329.1 x 747.6 mm		
	Response Time	4 ms (grey to grey, avg.)	6 ms (grey to grey, avg.)			
	Backlight	LED, full array	LED, edge lit			
	Video	Analogue RGB (0.7 Vp-p) [75], Digital (conforms to DVI 1.0 standards), DisplayPort 1.1				
Computer Input	Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync on green, Composite sync (TTL: positive/negative)				
	Plug & Play	VESA DDC2B				
	Power Management	nt VESA DPMS, DVI DMPM				
Video Colour Sy	ystem	NTSC (3.58 MHz, 4.4	3 MHz), PAL, PAL60, S	SECAM		
Input Terminals	5*3	DisplayPort x 1, DVI-I x 1, Mini D-sub 15-pin x 1, HDMI x 2^{*3} , 3.5 mm-diameter mini stereo jack x 2, RS-232C x 1				
Output Termina	als*3	DisplayPort x 1 (supports video signals only), DVI-D x 1, 3.5 mm-diameter mini stereo jack x 1, RS-232C x 1				
Input/Output To	erminals	LAN port x 1				
Built-in Speake	rs	10 W + 10 W				
Power Supply		100V – 240V AC, 50/60 Hz				
Power Consum	ption	280 W	225 W	180 W		
Environmental	Operating Temperature	0°C to 40°C				
Conditions	Operating Humidity	20% to 80% RH (no	condensation)			
Dimensions (W x D x H) (display only)		1,850 x 96 x 1,072 mm	1,578 x 39.4 x 916 mm	1,378 x 39.4 x 794 mm		
Weight	Weight		43 kg	32 kg		
Main Accessories		Power cord, remote control unit, battery (AA size) x 2, set-up manual, vertical sticker (logo), vertical sticker (operation panel)*4 cable clamp, CD-ROM				

^{*}¹ Brightness will depend on input mode and other picture settings. Brightness level will decrease over time. Due to the nature of the equipment, it is not possible to precisely maintain a constant level of brightness. *²

PN-Y556/Y496/Y436/Y326

Easy to use signage displays that place you in control

Easy to use, great to look at and available in a range of sizes to suit all needs, from a small and compact 32" up to 55". The **PN-Y556/Y496/Y436/Y326** range of affordable 1920 x 1080 robust 24/7 displays offer 450 cd/m² from Sharp puts you in total control, with innovative new content management delivery tools. Proprietary SHARP Content Distributor software for plug and play signage solutions. This enables content to be easily transferred directly to the displays via a LAN connection.

Key benefits | PN-Y556/Y496/Y436/Y326

- Heavy duty Sharp display range with embedded USB player and secure SD Card slot
- 55" / 49" / 43" / 32" display sizes
- 450 cd/m² (PN-Y556 / Y496 / Y436), 400 cd/m² (PN-Y326) brightness
- 24/7 Operation
- 1920 x 1080 resolution
- HDMI + DVI (Daisy Chain) + VGA
- Proprietary SHARP Content Distributer software
- Fanless design
- Automatic default to USB player the screen never goes blank
- Portrait, landscape format orientation and unique, face-up, face-down installation



Model		PN-Y556	PN-Y496	PN-Y436	PN-Y326
		55-inch (138.8cm) diagonal] TFT LCD	49-inch (123.2cm) diagonal] TFT LCD	43-inch (107.98cm) diagonal] TFT LCD	32-inch (80.1cm) diagonal] TFT LCD
	Max. Resolution	1,920 x 1,080 pixels			
	Max. Display Colours	16.77 million colours			
LCD Panel	Pixel Pitch (H x V)	0.630 x 0.630 mm	0.559 x 0.559 mm	0.490 x 0.490mm	0.364 x 0.364 mm
	Brightness (average)	450 cd/m ² 400 cd/m ²			
	Contrast Ratio	1,100:1			
	Viewing Angle (H/V)	178°/178° (CR	≥10)		
	Active Screen Area (W x H)	1209.6 x 680.4cm	1039.7 x 584.8cm	941.184 x 529.416cm	698.4 x 392.9cm
	Video	Digital (DVI 1.0 Analog RGB (0.	standard-comp .7 Vp-p) [75 Ω]	oliant),	
Computer Input	Video colour system	NTSC (3.58MHz)/NTSC (4.43MHz)/PAL/PAL-60/SECAM			
	Synchronisation	Horizontal/vertical separation (TTL: positive/negative)			
	Plug & Play	VESA DDC2B			
	Power Management	VESA DPMS, DVI DMPM			
Input Terminals		HDMI x 1, Mini D-sub 15 pin, 3 rows x 1, DVI-D 24 pin (HDCP compatible) x 1, 3.5 mm mini stereo jack x 2, D-sub 9 pin x 1			
Output Termina	ıls	DVI-D 24 pin (HDCP compatible) x 1, 3.5 mm mini stereo jack x 1, D-sub 9 pin x 1			
USB Port		USB flash drive (Type A)			
Built-in Speaker	rs	7W+7W 5W+5W			
USB Power Sup	ply	5V, 2A (USB TYPE A connector)			
SD card slot		SD memory card (SD memory card/SDHC memory card)			
LAN terminal		10 BASE-T/100 BASE-TX			
Power Consumption (Input signal waiting mode / standby mode*²)		105W	87W	76W	69W
Power Requirement		AC 100 - 240 V, 50/60 Hz			
Environmental Operating Temperature*1		32°F to 104°F (0°C to 40°C)			
Conditions	Operating Humidity	20% to 80% RI	H (no condensa	tion)	
Dimensions (Water (display only)	x D x H)	1233 x 46 x 710cm	1097 x 46 x 634cm	965 x 46 x 559cm	724.5 x 56 x 424cm
Weight		18 kg	15 kg	10.5 kg	6 kg

^{*}¹Temperature condition may change when using the monitor together with the optional equipment recommended by SHARP. In such cases, please check the temperature condition specified by the optional equipment. If you will use the monitor in a flat installation (tilted more than 20° (upward or downward), please use at an ambient temperature between 32°F (0°C) and 104°F (30°C). *² When POWER SAVE MODE is set to OFF. When POWER SAVE MODE is set to OFF.

PN-Q901E/Q801E/Q701E/Q601E

Affordable large commercial displays perfect for signage and meeting Rooms

Sharp's **PN-Q range of displays** includes an ultra-large 90" screen and delivers affordable and high impact large signage. With its elegantly slim profile, this professional LCD display range has been designed to fulfil professional signage, corporate reception, and office meeting room applications.

Key benefits | PN-Q901E/Q801E/Q701E/Q601E

- 90", 80", 70", 60" diagonal screen size
- 350 cd/m²
- 1920 x 1080 resolution
- UV²A technology
- Contrast 5,000:1
- · LED, edge lit
- 16/7 operation
- · 3-year warranty
- Integrated USB media player



Model		PN-Q901E	PN-Q801E	PN-Q701E	PN-Q601E		
Installation		Landscape					
		90" Class TFT LCD	80" Class TFT LCD	70" Class TFT LCD	60" Class TFT LCD		
	Max. Resolution	1,920 x 1,080 pixels					
	Max. Display Colours		1.07 billion colours				
	Pixel Pitch (H x V)	1.038 x 1.038 mm	0.9225 x 0.9225 mm	0.8015 x 0.8015 mm	0.693 x 0.693 mm		
	Brightness*1		350 cd/m²				
LCD Panel	Contrast Ratio		5,00	00:1			
	Dynamic Contrast Ratio		4,000	,000 : 1			
	Viewing Angle (H/V)		176°/176	5° (CR ≥10)			
	Active Screen Area (W x H)	78 ¹⁵ / ₃₂ " x 44 ⁹ / ₆₄ "	69 ⁴⁷ / ₆₄ " x 39 ¹⁵ / ₆₄ "	60.6" x 34.0"	52 ²⁵ / ₆₄ " x 34 ¹⁵ / ₃₂ "		
	Response Time	4 ms (grey to grey, avg.)					
	Backlight	LED, full array	LED, full array	LED, edge lit	LED, edge lit		
	Video	HDMI, Analogue RGB					
Computer Input	Synchronisation	Horizontal/vertical separation (TTL: positive/negative)					
put	Plug & Play	VESA DDC2B					
Video Coloui	Video Colour System		NTSC-M/PAL-N/PAL-M				
Input Terminals*2		$\label{eq:hdml} \begin{array}{l} \text{HDMI x 3, Mini D-sub 15-pin x 1, Component Video RCA} \\ \text{(Y, Cb/Pb, Cr/Pr) x 1, Composite Video RCA pin x 2,} \\ \text{RCA pin (L/R) x 2, 3.5 mm-diameter mini stereo jack x 1,} \\ \text{RS-232C x 1, USB x 1} \end{array}$					
Output Term	inals*2	Audio: RCA pin (L/R) x 1, Digital audio output (optical) x 1					
Input/Outpu	t Terminals*2	Ethernet RJ-45 x 1					
Built-in Spea	ikers	10W + 10W					
Power Supply		110 – 240V AC, 50/60Hz					
Power Consu	Power Consumption		300W	180W	150 W		
Operating Temperature		0°C to 40°C					
Dimensions (display only		2,054 x 116 x 1,211 mm	1,816 x 114 x 1,055 mm	1,563 x 87 x 908 mm	1,355 x 86 x 792 mm		
Weight		64 kg	50 kg	33.5 kg	24 kg		



Accessories

Contents

Mini-OPS	74-75
Peerless mobile stand/Wall mount	76-77
Wireless USB adaptor - PN-ZW01	78
Active Pens: PN-ZL06, PN-ZL03A, PN-ZL02A, PN-ZL01A	79

Accessories

Easy to use solutions - Sharp's Mini-OPS

Sharp is proud to introduce a smaller modern OPS (Open Pluggable Specifications) format to the market for feature extension of our next generation displays. The **Mini-OPS** format builds on the existing OPS Format and expands the range of OPS devices for professional displays. Featuring the latest Intel 6th generation processors, the Mini-OPS format is future-proof and allows for faster ROI, reduced energy costs and its fanless architecture offers more reliability with zero operating noise. The 3 Mini-OPS models are compatible with most of Sharp's product range, see details in individual product pages.

Mini-OPS PC Module (PN-ZB03PC)

- For reliable, cable less, integrated computing power
- Satisfies the vast variety of modern signage user requirements with a latest 6th Generation Intel Celeron Processor power reducing total energy cost, running cost, and increased ROI
- A minimised amount of moving parts, with no operating noise this fanless architecture is designed for reliability - reduced dust inside the display and preserve the electronics for long term durability
- High speed pluggable connectors: supports high speed content transmission, such as stunning 4K contents



Mini-OPS Wireless Module (PN-ZB03W)

- For advanced collaboration and interactive multi-screen sharing
- Allows quick and easy BYOD screen share from a Notebook PC (WIN/Mac) or mobiles device (iOS/Android)
- Integrated BYOD screen sharing, quick and easy sharing of ideas without cable clutter
- Instant wireless bi-directional touch remote control between host and BYOD devices, for total dynamic collaboration
- Split screen display of up to 4 devices onto the host display
- "1 to 4" content cloning on up to 4 host displays



Mini-OPS HDBaseT Receiver (PN-ZB03H)

- · Easy and neat solution for long distance signal cabling
- · Connects any HDMI/DVI device like PC, BD player, etc. to a display
- Cable connection up to 100 Meter distance
- Transmission of video, audio, LAN and RS-232C signals, and additionally, USB signal
- · Latest Spec HDBaseT 2.0 standard



Peerless mobile stand/Wall mount

Complete mounting solutions

The Peerless flat panel mobile stand offers the most complete mobile solution for today's interactive display system. Designed exclusively for Sharp displays, durable 4" swivel casters provide easy manoeuvrability over various flooring surfaces and through doorways. Two locking casters ensure complete stability wherever the trolley is placed. In addition, the continuous tilt and height adjustment assures the display will be positioned at the ideal viewing angle for the viewing audience.



Key benefits | Peerless stand

- · Designed exclusively for Sharp interactive displays
- Integrated cable management protects, contains and conceals cables for a clean, professional installation
- · Manoeuvres easily on four 4" (102mm) swivel casters, two locking
- Display can be located anywhere along the column for perfect viewing height up to 1526 mm
- · Wide wheel base provides convenient access to the BIG PAD

The **Peerless universal flat wall mount** series offers versatile installation features and mounting options. Horizontal and vertical adjustment abilities allow for post installation levelling and side-to-side positioning, making it easier than ever to find the perfect display position.



The low-profile design offers the sleek, aesthetically pleasing look to fit into any décor. Security screws provided in the mounting system deter tampering and theft. The open wall plate design offers total wall access, increasing the electrical and cable management options.

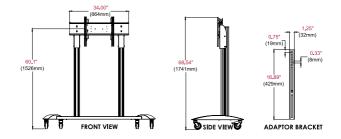
The display can simply be installed with adaptors hooking onto the wall plate for an overall quick, simple, and secure installation.

Key benefits | Peerless wall mount

- Fits display sizes from 55" to 90"
- Includes all necessary wall and display attachment hardware
- Supports VESA mounting 200mm, 400mm and 600mm
- · Low-profile design holds display only 30mm

Model	Peerless stand
Dimensions (W x H x D)	1639 x 1741 x 745mm
Product weight	45kg
Load capacity	82kg
Finish	Powder Coat
Available colours	Black
Package size (W x H x D)	1212 x 978 x 276mm
Package ship weight	51.6kg

Model Peerless wall mount Display Size (inches) 55 - 90 Max > Load (Kg) 102 Dimensions (W x H x D) 675 x 626 x 46mm Colour Matte Black



Wireless USB adapter - PN-ZW01

Plugs discreetly in the rear display cabinet

The **PN-ZW01** wireless USB module has been exclusively developed for Sharp's smart large format display line-ups PN-B and PN-M range. The module slots into the USB connection in the rear of the display, and connects automatically to the embedded Android system to provide full wireless network capability.

The wireless USB module is the perfect choice for signage applications, where cabled network support is not practical or desirable. The wireless adapter allows for straightforward wireless distribution of image and video content to the display, or allows for easy remote management and control of the display operation.

Key benefits | Wireless USB adapter - PN-ZW01

- Wireless USB module designed and developed for sharp PN-B and PN-M range
- · Easy, fast, 'Plug and play' installation
- · Reliable and long-life performance with all wireless networking benefits
- · Supports wireless content distribution
- · Support wireless monitor control and management



PN-ZW01

Active Pens: PN-ZL06, PN-ZL03A, PN-ZL02A, PN-ZL01A

With powerful and ergonomic performance, the PN-ZL range of advanced active pens gives even more satisfaction and confidence to any user engaging the Pen-on-Paper touch experience. The pens sit snugly in the hand, providing comfort and ease of use all the time. The active pen gives the presenter or trainer quick and intuitive access to annotation options or pre-set configurations via the smart micro-switches built into the pen. The active pen can also make use of more expressive writing and annotation possibilities through its pressure sensitive capability.

The PN-ZL06 and PN-ZL03A active pens are compatible with the BIG PAD projected capacitive (PCAP) Multi-touch technology, and the BIG PAD Infrared Multi-touch technology is supported by the PN-ZL02A. The active pen option PN-ZL01A bundles the PN-ZL02A pen with the wireless transceiver USB adapter.

Key benefits | Active Pens

- Saves time and increases productivity with built in smart micro-switches
- · Enhances the Pen-on-Paper natural user experience
- Supporting both PCAP and Infrared Multi-touch technology
- · Optimal performance with Sharp Pen software



Model	PN-ZL06	PN-ZL03A	PN-ZL02A	PN-ZL01A
Wireless Standard	Bluetooth 2.4GHz, IEEE802.15.4			
Operating Voltage (DCV)	1.5 (1x AAA Battery)			
CE	V			
Number of Micro Switches	4	3		
Pressure Sensitive	V			
Supported Touch Technology	Capacitive Capacitive Infrared Infra		Infrared	
Number of Supported Pens	Adapter supports up to 8 active pens simultaneously			
Tip size	2mm 3.5mm			

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