





Professional and Interactive Display Guide

Every professional application has unique demands /This is Why we dedicate leading-edge innovation and expertise to deliver the optimum solution every time.

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OUR VISION

"TO TRANSFORM THE WAY ORGANISATIONS ENGAGE WITH INFORMATION THROUGH CONNECTED TECHNOLOGIES"

Inspiring ideas from technology



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BIG PAD

BIG PAD is Sharp's hero range of interactive flat panel displays, with the power to transform meetings and lessons. The range includes affordable versions for campus environments and small and medium-sized offices and extends to the award-winning PN-80TC3 with its smoothest P-CAP capacitive touch for transformative collaborative meetings.

Responsive, Intuitive and Seamless Collaboration – Sharp's BIG PAD Pro



Sharp's BIG PAD Pro **PN-80TC3** is the ultimate model for corporate settings and demanding mission-critical collaborative environments. Building on a unique pioneering interactive legacy, the **PN-80TC3** boasts projected capacitive touch technology (P-CAP) representing Sharp's latest innovative insight and unparalleled experience in providing optimised, dedicated and collaborative touchscreen solutions. 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 FEATURES | PN-80TC3

- BIG PAD Pro for the most demanding corporate environments
- 80" diagonal screen size
- Smooth and responsive P-CAP 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

Model		PN-80TC3	
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 (approx.)	1.06 billion colours	
	Pixel Pitch (H x V)	0.923 x 0.923 mm	
I CD Panel	Brightness*2	300 cd/m ²	
LCD Pariel	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 (P-CAP)	
	PC Connection Port	USB 2.0 (type B) x 2	
Touchscreen	Power Supply	Supplied from main unit	
	Multi Touch	10 points	
	Protection Glass	Thickness: Approx. 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	Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync on green (D-sub 15-pin only), Composite sync (TTL: positive/negative)	
Input	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 Terminal	S*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 (W x D x H) (approx.) (display only)		1,850 x 96 x 1,072 mm	
Weight (approx.)		77 kg	
Main Accessories		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* software CD-ROM, RS-232C conversion cable (3.5 mm-diameter mini stereo jack) x 1	

*1UV²A stands for Ultraviolet-induced Multi-domain Vertical Alignment, a photo-alignment technology that ensures uniform alignment of liquid crystal molecules. *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. *3Including AG film on the front and AR film on the back. *Super a commercially available connection cable for PC and other video connections. *6Analogue 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. *6Ohly command control.

Sharp's BIG PAD with Wireless Connectivity



Sharp's **PN-70TW3/60TW3** are the first of 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-70TW3/60TW3** are setting a new 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-70TW3/60TW3** fast smart board functionality without the need for an external PC.

KEY FEATURES | PN-70TW3/60TW3

- Infrared (IR) 10-point touch 200hz sampling and up to 4 users
- 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
- New pen digitizer 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

Model		PN-70TW3	PN-60TW3
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 (approx.	Max. Display Colours (approx.)	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)	
	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 detection meth	od)
	PC Connection Port	USB (2.0 compliant) (Type B) x 2	
Touchscreen	Power Supply	Supplied from main unit	
	Multi Touch	10 points	Thicknose: Approx 2.0 mm*3
	Protection Glass	Thickness: Approx. 3.4 mm ^{*3} Shock resistance: 130 cm ^{*4}	Thickness: Approx. 3.0 mm ^{*3} Shock resistance: 130 cm ^{*4}
Touch Pen	Communication	Wireless communication method	
	Function Button	N/A (passive pen)	
		Wireless communication method (2.4 GHz, IEEE802.11 b/g/n) (5 GHz, IEEE802.11 a/n)	
Wireless Controller	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 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 S	ystem	NTSC (3.58 MHz) / NTSC (4.43 MHz	
Input Terminals	*6	PC analogue: Mini D-sub 15-pin x 1 compatible, PC / AV signal compatible jack x 1, RCA pin (L/R) x 2, video: RCA RCA pin x 1*6, RS-232C D-sub 9-pin	, HDMI [™] x 3 (HDCP and 1080p Ie), 3.5 mm-diameter mini stereo CA pin x 2* ⁶ , component video: 1 x 1
Output Termina	als*6	3.5 mm-diameter mini stereo jack x DisplayPort (HDCP compatible) x 1	1,
Input/Output Te	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 Consumption		235 W	190 W
Environmental	Operating Temperature	5°C to 35°C	
Conditions Operating Humidity		20% to 80% RH (no condensation)	I
Dimensions (W x D x H) (approx.) (display only)		1,647 x 94 x 1,010 mm	1,437 x 94 x 890 mm
Weight (approx.)		61 kg	48 kg
Main Accessories		AC power cord, remote control unit, manual, blank sticker, cable clamps (3.0 m), eraser, pen tray, touch pen (touch pen battery (AAA size), SHARI CD-ROM, wireless token, wireless ar RS-232C conversion cable (3.5 mm-	x 5, camera mount, USB cable with function button), pen adaptor, P Display Connect software daptor, wireless adaptor cover,

*'UV²A stands for Ultraviolet-induced Multi-domain Vertical Alignment, a photo-alignment technology that ensures uniform alignment of liquid crystal molecules. *Brightness depends on input mode and other picture settings. Brightness level will decrease slightly over the lifetime of the product. Due to the physical limitations of the equipment, it is not possible to maintain a precisely constant level of brightness. *Including AG film on the front and AR film on the back. *4Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its center. *5D-sub input terminal only, *6Use a commercially available connection cable 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 cable via mini D-sub 15-pin jack. *8Requires the bundled R5-232C conversion cable. For command control only.

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 SHARP Display Connect software enables multifaceted wireless communication. Whether in the boardroom or the classroom, Sharp changes the way you communicate.

KEY FEATURES | PN-70TB3/60TB3

- 70"/60" Class UV²A LCD
- 10 Point Touch
- 10W + 10W Front Speakers
- 1920 x 1080 resolution in dots
- Integrated Touch Screen
- Contrast 3.000:1
- Sharp PEN Software for intuitive and productive white boarding incl. new Sheet Extension function
- Optional Stand / Wall Mount
- Collaboration via MFP / Tablets



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 (approx.)	1.06 billion colours	
	Pixel Pitch (H x V)	0.802 x 0.802 mm	0.692 x 0.692 mm
LCD Panel	Brightness*1	300 cd/m ²	
LCD Fallel	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	Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync on green (D-sub 15-pin only), Composite sync (TTL: positive/negative)	
Input	Plug & Play	VESA DDC2B	
	Power Management	VESA DPMS, DVI DMPM	
Video Colour System		NTSC (3.58 MHz, 4.43 MHz), PAL, PAL60, SECAM	
Input Terminals*2		PC analogue: Mini D-sub 15-pin x 2*², HDMI (HDCP and 1080p compatible, PC/AV signal compatible) x 3, 3.5 mm-diameter mini stereo jack x 2, Video x 1*², Component video x 1*²	
Output Terminal	S*3	3.5 mm-diameter mini stereo jack x 1, DisplayPort (HDCP compatible) x 1	
Input/Output Ter	minals	LAN port (10Base-T/100Base-TX) x 1	
Built-in Speakers	5	Built-in - 10 W + 10 W, External - 10 W + 10 W	
Power Supply		100V – 240V AC, 50/60 Hz	
Power Consumption		250 W	185 W
Environmental	Operating Temperature	5°C to 35°C	
Conditions	Operating Humidity	20% to 80% RH (no condensation)	
Dimensions (W x (display only)	K D x H) (approx.)	1,647 x 94 x 1,010 mm	1,437 x 94 x 890 mm
Weight (approx.)	61 kg	46 kg

*'UV²A stands for Ultraviolet-induced Multi-domain Vertical Alignment, a photo-alignment technology that ensures uniform alignment of liquid crystal molecules. *'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. *'For connecting keyboard, mouse, and USB memory device.

BIG PAD For Best Classroom Management

Collaboration and interactivity has never been more important in business meetings, lessons or in operational rooms - the new BIG PAD line up **PN-80SC5/PN-70SC5/PN-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.

KEY FEATURES | PN-80SC5/PN-70SC5/PN-60SC5

- New generation Sharp BIG PAD interactive displays with new presentation control features
- 70" / 80" 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
- 24/7 operation
- Freeze Frame/Blackout Buttons for more classroom control
- Smooth glass surface texture for prolonged tactile comfort
- Sharp PEN Software including new sheet extension function
- SHARP Touch Viewing Software for easy project file management
- Multi-device BYOD Collaboration with SHARP Display Connect



*PN-60SC5 will be available from August 2017

Model		PN-80SC5	PN-70SC5
Installation		Landscape	
		80-inch-class (203.2 cm diagonal) UV ² A *1 LCD	70-inch-class (176.6 cm diagonal) UV ² A*1 LCD
[Max. Resolution	1,920 x 1,080 pixels	
	Max. Display Colours (approx.)	1.07 billion colours*2	
	Pixel Pitch (H x V)	0.923 x 0.923 mm	0.802 x 0.802 mm
LCD Panel	Brightness*3	350 cd/m ²	
	Contrast Ratio	5,000 : 1	4,000 : 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
	Response Time	4 ms (grey to grey, avg.)	8 ms (grey to grey, avg.)
	Backlight	LED, direct lit	LED, edge lit
	Touch Technology	IR (infrared blocking detection meth	od)
	PC Connection Port	USB 2.0	
Touchscreen	Power Supply	Supplied from USB port	
	Multi Touch	10 points	
	Protection Glass	Thickness: Approx. 3.1 mm*5 Shock resistance: 130 cm*6	
Touch Pen	Function Button	N/A (passive pen)	
c .	Video	Analogue RGB (0.7 Vp-p) [75Ω]	
Computer Input	Synchronisation	Horizontal/vertical separation (TTL: positive/negative)	
	Plug & Play	VESA DDC2B	
Video Colour Sy	/stem	NTSC (3.58 MHz) / NTSC (4.43 MHz) / PAL / PAL60 / SECAM
Input Terminals	*7	PC analogue: Mini D-sub 15-pin x 1 compatible, PC / AV signal compatible jack x 1, audio: RCA pin (L/R) x 1, vi video: RCA pin x 1 ^{*8} , RS-232C D-sub	le), 3.5 mm-diameter mini stereo deo: RCA pin x 1 ^{*8} , component
Output Termina	ls*7	3.5 mm-diameter mini stereo jack x	1
Speaker Output		10 W + 10 W	
Mounting		VESA (4 points), 600 x 400 mm, M6 screw	VESA (4 points), 400 x 400 mm, M6 screw
Power Supply		100V - 240V AC, 50/60 Hz*9	
LAN terminal		10 BASE-T/100 BASE-TX	
Power Consumption		270 W	200 W
Environmental	Operating Temperature*1	5°C to 35°C	
Conditions	Operating Humidity	20% to 80% RH (no condensation)	
Dimensions (W x D x H) (approx.) (display only)		1,882 x 127 x 1,139 mm	1,635 x 96 x 998 mm
Weight (approx.)		79 kg	62 kg
Main Accessories		Power cord, remote control unit, bat cable clamp x 2, cable clamp (for po tray, pen tray mounting screw x 5, t camera mount screw x 2, camera sc Connect license, stand hole protection	wer cord), USB cable* ¹⁰ , eraser, pen ouch pen, camera mount, rew, CD-ROM, SHARP Display

*1 UV2A stands for Ultraviolet-induced Multi-domain Vertical Alignment, a photo-alignment technology that ensures uniform alignment of liquid crystal molecules. *2 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. *3 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. *4 Excluding the touch sensor part around the LCD panel. *5 Including anti-glare film on the front. *6 Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its centre. *1 Use a commercially available connection cable for PC and other video connections. *8 Video and component video are switchable; use the menu to select. *9 The AC power cord is an inlet type. The cable is bundled (3 pins). *10 Please use only this USB cable and no other. If connected via a USB hub, a PC may not recognise the PN-80SC5/70SC5 correctly and operation may be unstable.

The Interactive Display for Education

PN-VC651B 65" interactive display is the ideal model for all classrooms, training rooms and office meeting room applications. Offering the latest collaboration software with outstanding price performance, Sharp's IFPD is optimised for schools, the campus and SME environment to enhance teacher communication and create effective collaboration.

KEY FEATURES | PN-VC651B

- Perfect for classrooms and higher education
- 65" diagonal screen size
- Infrared (IR) 6-point touch up to 2 users
- Comprehensive Education Oktopus software suite including variety of prepared classroom lesson contents such as: Maths, Drawing, English, Science, Geography
- Annotation software for intuitive writing, drawing and annotation
- Smooth and hard-wearing matt anti-glare and anti-reflective coating
- Two built-in stereo loudspeakers (2 x 15W)



Model		PN-VC651B
Installation		Landscape
		65-inch-class (64.53-inch diagonal) a-Si TFT active matrix
	Backlight	Edge
	Max. Resolution	1920 × 1080 pixels
	Max. Display Colours	1.07 B (approx.)
1.65	Pixel Pitch (HxV)	0.744 mm
LCD panel	Max. Brightness*1 (average)	360cd/m ²
	Contrast Ratio	4000:1
	Viewing Angle (H/V)	178° / 178°
	Active Screen Area (WxH)	1428.48 x 803.52 (mm) (56.24" x 31.63") (approx.)
	Response Time	8 ms (Gray to Gray, Ave.)
	Touch Technology	IR Touch Screen (6-point multi-touch)
Touchscreen	Power Supply	USB
Touchscreen	Protection Glass Thickness	4mm anti-glare glass. 4mm tempered, anti-reflective glass (optional)
	Video	HDMI1.3b
Computer	Synchronisation	HDMI TMDS
Input	Plug & Play	VESA DDC2B
	Power Management	VESA DPMS
	PC Analogue	VGA D-sub15 pin x1
	HDMI	x1 (HDCP and 1080p compatible)
Input Terminals	Audio	3.5mm -diameter stereo jack x1
Terminais	USB (Type B)	x1 (for external touch screen usage only)
	USB (Type A)	USB3.0 x2
Output	Audio	3.5mm-diameter stereo jack x1
Terminals	Speaker Output	15W + 15W
Speaker Output		15W + 15W Audio Output Power
Mounting		VESA Hole Configuration: 600mm (w) x 400mm (h)
Power Supply		110V-240V AC, 50/60Hz
Power Consumption		270W
Environmental	Operating Temperature	0° C to 50° C
Conditions	Operating Humidity	90% relative humidity
Dimensions(WxHxD) (approx.) (display only)		1562.2mm x 959.6mm x 93.2mm
Weight (approx)		58kg
Main Accessories		Remote control, Power cable, User Manual

*1Brightness 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,

The BIG PAD for Huddle Spaces

Sharp's BIG PAD series makes meetings and communications smoother and more productive. Reinforcing the line-up is the 40" **PN-40TC1**, which offers a fresh approach to boosting the dynamism of business and educational organisations. It's ideal for meetings of two to six people held in small spaces—the so-called "huddle spaces" where a high proportion of office meetings take place. Making the most of huddle spaces can transform communications and accelerate business to a whole new level.

KEY FEATURES | PN-40TC1

- Interactive Display for small huddle meeting areas
- 40" TFT LCD
- Smooth glass surface for best in class tactile comfort
- 10-Point P-CAP Capacitive Touch for confident and intuitive interactivity
- HDMI + DisplayPort
- 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-40TC1	
Installation		Landscape / Portrait / Face-up	
		40-inch-class widescreen (100.33 cm diagonal) TFT LCD	
	Max. Resolution	1,920 × 1,080 pixels	
	Max. Display Colours (approx.)	16.77 million colours	
	Pixel Pitch (H x V)	0.45735 x 0.4494 mm	
	Brightness*1	300 cd/m ² (panel)	
LCD Panel	Contrast Ratio	5,000 : 1	
	Viewing Angle (H/V)	178°/178° (CR ≥10)	
	Active Screen Area (W x H)	878.1 x 485.3 mm (34 %/16" x 19 ³ /32")	
	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) x 1	
Touchscreen	Power Supply	Supplied from main unit	
	Multi Touch	10 points	
	Protection Glass	Shock resistance: 130 cm*2	
	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	*3	PC analogue: Mini D-sub 15-pin x 1, HDMI x 2 (HDCP and 1080p compatible, PCIAV signal compatible), DisplayPort (HDCP compatible, PC signal compatible) x 1, 3.5 mm-diameter mini stereo jack x 1, RS-232C x 1	
Output Termina	als*3	3.5 mm-diameter mini stereo jack x 1	
Input/Output Te	erminals*3	LAN port (10Base-T/100Base-TX) x 1	
USB Hub Funct	ion	USB 2.0 (Type A) x 2	
Speaker Outpu	t	10 W + 10 W	
Mounting		VESA (4 points), 200 x 200 mm, M6 screw	
Power Supply		100V – 240V AC, 50/60 Hz*4	
Power Consumption		89W	
Environmental Conditions	Operating Temperature*5	5°C to 35°C	
Conditions	Operating Humidity	20% to 80% RH (no condensation)	
Dimensions (W x D x H) (approx.) (display only)		939 x 65 x 546 mm	
Weight (approx.)		17.5 kg	
Main Accessories		AC power cord, remote control unit, battery (AAA size) x 2, set-up manual, cable clamp x 3, camera mount, USB cable*6, logo sticker, pen tray, touch pen, CD-ROM, portrait installation operation label, desktop stand, SHARP Display Connect license x 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. 300 cd/m² is the brightness of the LCD panel component. The brightness of the product itself may be less than this. *'Approximate distance at which the glass panel can withstand the impact of a 500-gram iron ball dropped on its centre. *³Use a commercially available connection cable for PC and other video connections. *⁴The AC power cord is an inlet type. The cable is bundled (3 pins). *⁵For face-up installation is 5°C to 30°C. *⁶Please use only this USB cable and no other. If connected via a USB hub, a PC may not recognise the PN-40TC1 correctly and operation may be unstable.

Multi-Touch, Multi-User, Multi-Display experience with BIG PAD Pro

Sharp's new **Advanced Multi-Board** driver solution allows an existing standard Multi-Board setup of either two or three BIG PAD Pros to fully take 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 FEATURES | Advanced Multi-Board Software

- Easy to setup and to configure a powerful BIG PAD Pro interactive wall solution
- Supports either 2x or 3x BIG PAD Pro interactive displays
- Supports simultaneous multi-user, multi-display and 10-point multi-touch
- Advanced software driver for smooth and highly responsive capacitive (P-CAP) 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	Windows 7, 8, 8.1 Professional 64
Memory (RAM)	8 GB
Processor	Intel [®] Core™ i7 processor
Graphics Card	2x or 3x DisplayPort outputs Nvidia Chipset must support "Mosaic" function with 3840x1080 or 5760x1080 resolution Intel Chipset must support "Collage" function with 3840x1080 or 5760x1080 resolution Matrox Graphics must support "Stretched Desktop" with 3840x1080 or 5760x1080 resolution



Remote Collaboration Anywhere Anytime

Even the best planned meetings are expensive in time and money. And that's 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. And if you add the optional ConX software you can increase the number of locations from 4 right the way up to 25.





KEY FEATURES | Optimised Video Collaboration

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

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	

HD: 1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25 SD: 480i, 576i
12x optical, 32x digital
169 x 142 x 164
1.35
H.265/H.264/MJEPG
1xHDMI: Version 1.3
1xUSB3.0: Type B female jack, 1xUSB2.0: Type A female jack
JEITA type (DC IN 12V)
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	

Work Smarter with SHARP Display Connect

SHARP Display Connect supports effective and multifaceted communication. Onscreen 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. SHARP Display Connect facilitates interactive presentations, lively discussions, and paperless meetings in both business and educational settings.

KEY FEATURES | SHARP Display Connect

- SHARP Display Connect enables the following interactive functions on BIG PAD and mobile devices connected via wireless LAN:
 - sharing of onscreen content
 - transfer of files
 - interactive onscreen 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 onscreen 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 communications



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

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	
	CPU	Celeron 1.6GHz / AMD Sempron 1.6GHz or faster (Recommended: Core2 Duo 2.8GHz / AMD Athlon II X2 2.8GHz or faster)	 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.
	Memory	2GB	
	Harddisk (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	

Peerless Mobile Stand

Complete Mobile Mounting Solution

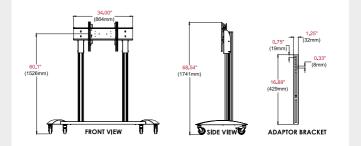
The Peerless Flat Panel Floor Trolley offers the most complete mobile solution for today's interactive display system. Designed exclusively for Sharp displays, durable 4" swivel casters provide easy manoeuvrability over various flooring surfaces and through doorways. Two locking casters ensure complete 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 FEATURES | Peerless Stand

- Designed exclusively for Sharp Interactive Flat Panel 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 60" at centre (1526mm)
- Wide wheel base provides convenient access to the BIG PAD

Model	PEERLESS STAND
Dimensions (W x H x D)	64.53" x 68.54" x 29.33" (1639 x 1741 x 745mm)
Product weight	98lbs (45kg)
Load capacity	180lb (82kg)
Finish	Powder Coat
Available colours	Black
Package size (W x H x D)	47.75" x 38.50" x 10.875" (1212 x 978 x 276)
Package ship weight	114lb (51.6kg)
Package UPC code	735029311003
Package contents	Trolley, mounting hardware and instructions
Units in package	1





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Ultra HD

Sharp's 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.

Sized for Impact, Styled for Detail Sharp's 4K PN-H801



The **PN-H801** 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** 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** 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 FEATURES | PN-H801

- 80" 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		РN-H801	
Installation		Landscape/Portrait	
		80-inch-class (204.4 cm diagonal) TFT LCD	
	Max. Resolution	3,840 x 2,160 pixels	
	Max. Display Colours (approx.)	1.06 billion colours	
	Pixel Pitch (H x V)	0.464 x 0.464 mm	
	Brightness*1*2	440 cd/m ²	
LCD Panel	Contrast Ratio	4,000 : 1	
	Viewing Angle (H/V)	176°/176° (CR ≥10)	
	Active Screen Area (W x H)	1,781.76 x 1002.24 mm (70 ¼s″ x 39 ¼₅″)	
	Response Time	6 ms (grey to grey, avg.)	
	Backlight	LED, edge lit	
	Video	HDMI , Analogue RGB	
Computer Input	Synchronisation**	Horizontal/vertical separation (TTL: positive/negative)	
mput	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*4*5, USB x 1 (photo, video, music)*6, 3.5 mm-diameter mini stereo jack x 1	
Output Termina	ls*3	Digital audio output (optical) x 1, 3.5 mm-diameter mini stereo jack x 1	
Input/Output Te	rminals	LAN: 10Base-T/100Base-TX x 1	
Built-in Speaker	S	10 W + 10 W	
Internal Memor	y	400MB	
Mounting		VESA (4 points), 600 x 400 mm (23 5/8" x 15 3/4") pitch, M6 screw	
Power Supply		100V – 240V AC, 50/60 Hz	
Power Consumption		490 W	
Environmental	Operating Temperature	0°C to 40°C	
Conditions	Operating Humidity	20% to 80% RH (no condensation)	
Dimensions (W x D x H) (approx.) (display only)		1,816 x 114 x 1,045 mm	
Weight (approx.)		54.0 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	

*'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. *³When 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. *³Use a commercially available connection cable for PC and other video connections. *⁴Requires the bundled RS-232C conversion cable. *⁵Only for command control. *⁶Supported media formats: JPEG for photos; MP4, M2T5, 3GP, and MOV for videos; and WAV, WMA, M4A, and MP3 for music. *⁷Use a 3-pin compatible power outlet. *⁵Sync-on green and composite sync are not supported.

Stylish, Thin and a Light-weight Design: Sharp's 4K Ultra HD Display

Packed with state-of-the-art picture technologies, the **PN-H701** is an outstanding communication platform. This 70-inch-class 4K (3840 x 2160 resolution) Ultra HD monitor boasts a screen with the size and impressive super-high-resolution image quality to showcase all manner of content, from detailed text to beautifully textured graphics. With its huge and seamless screen and four times the resolution of 1080p full HD, it delivers all the detail, depth, and clarity that the content creator intended. Excelling in any indoor venue whether in a retail, office, conference, or public setting - this is one monitor that will make an unforgettable impact on any audience.

KEY FEATURES | PN-H701

- 70" Class diagonal screen size
- 3840 x 2160 resolution in dots UHD
- Contrast 3.000:1
- LED, Edge-lit
- Stylish Design
- 24/7 Operation
- Thin and Lightweight (69mm at thickest point) (Weight: 38kg)
- Built in Speakers



Model		РN-H701	
Installation		Landscape/Portrait	
		70-inch-class (176.6 cm diagonal) TFT LCD	
	Max. Resolution	3,840 x 2,160 pixels	
	Max. Display Colours (approx.)	16.77 million colours	
	Pixel Pitch (H x V)	0.401 x 0.401 mm	
	Brightness*1	400 cd/m ²	
LCD Panel	Contrast Ratio	3,000 : 1	
	Viewing Angle (H/V)	176°/176° (CR ≥10)	
	Active Screen Area (W x H)	1,538.9 x 865.6 mm	
	Response Time	6 ms (grey to grey, avg.)	
	Backlight	LED, edge lit	
	Video	HDMI , Analogue RGB	
Computer	Synchronisation	Horizontal/vertical separation (TTL: positive/negative)	
Input	Plug & Play	VESA DDC2B	
Input Terminals*2		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*3*4, USB x 1 (photo, video, music)*5, 3.5 mm-diameter mini stereo jack x 1	
Output Terminal	S*3	Digital audio output (optical) x 1, 3.5 mm-diameter mini stereo jack x 1	
Input/Output Te	rminals	LAN: 10Base-T/100Base-TX x 1	
Built-in Speaker	s	10 W + 10 W	
Power Supply		100V – 240V AC, 50/60 Hz	
Power Consumption		270 W	
Environmental	Operating Temperature	0°C to 40°C	
Conditions	Operating Humidity	20% to 80% RH (no condensation)	
Dimensions (W x D x H) (approx.) (display only)		1,559 x 69 x 894 mm	
Weight (approx.)		38.0 kg	

*'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. *'When installing the monitor in the potrait 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. *'Requires the bundled RS-232C conversion cable. *'Only for command control. *'Supported media formats: JPEG for photos; MP4, M2TS, 3GP, and MOV for videos; and WAV, WMA, M4A, and MP3 for music. Note: USB storage device sold separately.

PN-K321H/K322BH

Displays of Power and Precision

Sharp's new professional-use UHD LCD monitors form an entirely new generation of displays that incorporate Sharp's cutting edge IGZO technology. This technology offers two major advantages: ultra-high resolution and energy efficiency. At 3840 x 2160 pixels (UHD), this 80.1cm diagonal (32") class monitor boasts four times the resolution of 1080p full HD. Users can now view the content of four HD screens on a single, seamless display. This super-high resolution makes this monitor ideally suited to a wide range of professional applications in settings where detailed information needs to be displayed with tremendous precision.

KEY FEATURES | PN-K321H/K322BH

- 32" Class (80.1 cm) diagonal screen size
- 3840 x 2160 resolution in dots UHD
- IGZO Technology
- Contrast 800:1
- LED, Edge-lit
- Multi-Stream Transport (MST)
- 10 point capacitive touch (PN-K322BH)



Model		PN-K321H	PN-K322BH
Installation		Landscape / Portrait	
		32-inch widescreen (80.1 cm diagonal) IGZO ultra-HD LCD	32-inch-class widescreen (80.1 cm diagonal) IGZO LCD
	Max. Resolution	3,840 x 2,160 pixels	
	Max. Display Colours (approx.)	1.07 billion colours	
	Pixel Pitch (H x V)	0.182 x 0.182 mm, 140 ppi	
LCD Panel	Brightness*1	350 cd/m ²	300 cd/m ²
	Contrast Ratio	800 : 1	
	Viewing Angle (H/V)	176°/176° (CR ≥10)	
	Active Screen Area (W x H)	697.9 x 392.6 mm	
	Response Time	8 ms (grey to grey, avg.)	
	Backlight	LED, edge lit	
	Video	—	
Computer	Synchronisation	_	
Input	Plug & Play	VESA DDC2B	
	Power Management	Power Save (VESA DisplayPort)	
Video Colour Sy	stem	—	
Input Terminals*2		DisplayPort ™1.2 x 1, RS-232C* ³ x 1, 3.5 mm-diameter mini stereo jack x 1	DisplayPort™ x 1, HDMI™ x 2 (HDCP compatible), RS-232C*1, 3.5 mm-diameter mini stereo jack x 1
Output Terminals*3		3.5 mm-diameter mini stereo jack x 1	3.5 mm-diameter mini stereo jack x 1, Micro-USB x 1 (for touchscreen operation)
Input/Output Te	rminals	—	
Built-in Speaker	s	2 W + 2 W	
Power Supply		100V – 240V AC, 50/60 Hz	
Power Consumption		93 W*2 / 87 W*3	97 W*2 / 91 W*3
Environmental	Operating Temperature	0°C to 40°C	5°C to 35°C
Conditions	Operating Humidity	20% to 80% RH (no condensation)	
Dimensions (W x D x H) (approx.) (display only)		Without Stand 750 x 35 x 441 mm, With Stand 750 x 256 x 489 mm	Without Stand 750 x 36 x 441 mm, With Stand 750 x 390 x 493 mm
Weight (approx.)		7.5 kg With Stand 13.0 kg	9.0 kg With Stand 16.0 kg

 *1 Requires the bundled RS-232C conversion cable. *2 When using the supplied AC adaptor. *3 When using the monitor in DC 19.5V.



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Video Wall

The Sharp's PN-V range of video wall displays is dedicated to bringing high-impact visual solutions into many retail and missioncritical 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.

The World's Largest LCD Video Wall Display

Sharp's New **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 FEATURES | PN-V701

- New 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 in dots
- 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 L*ab technology
- Sharp recalibration software for fast colour maintenance of the video wall using an XYZ camera



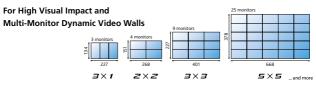
*PN-V701 will be available from late summer 2017.

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 (approx.)	1.06 billion colours
	Pixel Pitch (H x V)	0.401 x 0.401 mm
	Brightness*1	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)	1,538.9 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)
mpar	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) (approx.)	1,543.7 x 122 x 870.4 mm
Weight (approx	.)	37.0 kg



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-inch monitor brings a multitude of digital signage possibilities to public spaces, commercial establishments, transportation hubs, and corporate settings. And 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 FEATURES | PN-V600A/V601A/V602A

- 60" (152 cm) diagonal screen size
- 1366 x 768 dots resolution
- Brightness : 450 cd/m² (PN-V600), 700 cd/m² (PN-V601) , 1500 cd/m² (PN-V602)
- 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) / 5000:1 (PN-V602)
- 5 x 5 Multi-screen Capability (Enlargement) internal
- Module slot system
- UV²A technology (PN-V600A / PN-V601A)

Model		PN-V600A	PN-V601A	V602A	
Installation		Landscape/Portrait			
		60-inch widescreen (152.4 cm diagonal), TF	T LCD	60-inch widescreen (152.4 cm diagonal), UV ² A LCD	
	Max. Resolution	1,366 x 768 pixels		•	
	Max. Display Colours (approx.)	16.77 million colours	16.77 million colours		
	Pixel Pitch (H x V)	0.973 x 0.973 mm			
	Brightness*1	450 cd/m ²	700 cd/m ²	1,500 cd/m ²	
LCD Panel	Contrast Ratio	4000:1		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.)	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: positive/negative)			
Input	Plug & Play	VESA DDC2B			
	Power Management	VESA DPMS, DVI DMPN	1		
Video Colour Sy	stem	NTSC (3.58 MHz, 4.43 I	MHz)* ¹ , PAL, PAL60, SEC	AM	
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			
input ieminuis		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 Terminal	ls*3	Via Optional PN-ZB02 Board - PC digital: DVI-D 24-pin x 1, External speaker: 10W + 10W (6)			
Input/Output Te	rminals	Via Optional PN-ZB02 Board - LAN port (10Base-T/100Base-TX)			
Built-in Speaker	S				
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) (approx.) (display only)		1,335.9 x 149.3 x 754.2 mm			
Weight (approx.	.)	41 kg	44 kg		

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



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Professional Display

The Sharp portfolio of professional display products has been developed over many years and reflects a deep understanding of the technical and commercial demands of professional applications. With sizes ranging from 20 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-R903/PN-R903A



Breathless Quality and Superb Brightness Ultra Large 90" LCD, that Bring Images to Life

Sharp's PN-R903/PN-R903A

boasts an ultra-large 90-inch screen that towers seamlessly above other professional LCD monitors in size, quality, and impact. With its full-HD resolution, brilliant image quality, and streamlined profile, this premium



professional LCD monitor was designed to lead the large-format digital signage market. Local dimming of the LED backlight partnered with 700 cd/m² brightness keep the **PN-R903** well ahead of the pack.

KEY FEATURES | PN-R903/PN-R903A

- 90" (228.7 cm) diagonal screen size
- Local area dimming technology (only PN-R903)
- 700 cd/m²
- 1920 x 1080 resolution in dots
- UV²A technology
- Contrast 1,000,000:1 (PN-R903)
 4.000:1 (local dimming OFF)
- LED, full array
- 24/7 Operation

Model		PN-R903	PN-R903A
Installation		Landscape/Portrait	
		90-inch widescreen (228.7 cm diago	onal) UV ² A LCD
	Max. Resolution	1,920 x 1,080 pixels	
	Max. Display Colours (approx.)	1.06 billion colours	
	Pixel Pitch (H x V)	1.038 x 1.038 mm	
	Brightness	700 cd/m ²	
LCD Panel	Contrast Ratio	1,000,000 : 1 (Local Dimming only 4,000 : 1 (local dimming OFF)	4000 : 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	stem	NTSC (3.58 MHz, 4.43 MHz), PAL, P.	AL60, SECAM
Input Terminals		DisplayPort x 1, DVI-I x 1, Mini D-sul compatible), RS-232C x 1, 3.5 mm-c	
Output Terminal	ls	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 Te	rminals	LAN x 1	
Built-in Speaker	S	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)	
Dimensions (W (display only)	x D x H) (approx.)	2,055 x 122 x 1,197 mm	
Weight (approx.	.)	75 kg	

Heavy Duty Large Format Displays with Outstanding Brightness

Sharp's new 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 series 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 FEATURES | PN-R706/R606

- New generation heavy duty displays with Mini OPS extension slot
- 60"/70" diagonal screen size
- 700 cd/m²
- 24/7 signage applications
- 1920 x 1080 resolution in dots
- DisplayPort (Daisy Chain) + HDMI + VGA
- Slim bezel design
- Installation: portrait, landscape format orientation. Unique face up, face down installation



Model		PN-R706	PN-R606	
Installation		Landscape / Portrait		
		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 (approx.)	1.06 billion colours		
	Pixel Pitch (H x V)	0.802 x 0.802 mm	0.692 x 0.692 mm	
	Brightness	700 cd/m ²		
LCD Panel	Contrast Ratio	1,000,000 : 1 (local dimming set to HIGH) 4,000 : 1 (local dimming OFF)	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), PAL, P	AL60, SECAM	
Input Terminals		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 Terminal	ls	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 Te	rminals	LAN x 1		
Built-in Speaker	S	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 (W (display only)	x D x H) (approx.)	1,578 x 39.4 x 916 mm	1,378 x 39.4 x 794 mm	
Weight (approx.)	43 kg	32 kg	

The Heavy Duty Range for High impact Demanding Professional Signage



Sharp's new 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 series 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 FEATURES | PN-R556/R496/R426

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

Model		PN-R556	PN-R496	PN-R426	
Installation		Landscape / Portrait / Face-up / Face-down			
			49-inch widescreen (123.20cm diagonal) TFT LCD	42-inch widescreen (106.47cm diagonal) TFT LCD	
	Max. Resolution	1,920 x 1,080 pixels	I	1	
	Max. Display Colours (approx.)	1.07 billion colours			
	Pixel Pitch (H x V)	0.630 x 0.630 mm	0.559 x 0.559 mm	0.483 x 0.483 mm	
LCD Panel	Brightness*1	700 cd/m ²		l.	
	Contrast Ratio	1,300 : 1	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, avg.)	•	
	Backlight	LED, edge lit			
	Video	Analogue RGB (0.7 Vp- DisplayPort 1.2, HDMI	Analogue RGB (0.7 Vp-p) [75 Ω], Digital (DVI 1.0 standard–compliant),		
Computer Input	Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync on green* ² , Composite sync (TTL: positive/negative)* ²			
	Plug & Play	VESA DDC2B	VESA DDC2B		
	Power Management	VESA DPMS, DVI DMPM			
Input Terminals	*3	DisplayPort x 1, DVI-D 24-pin (HDCP compatible) x 1, Mini D-sub 15-pin x 1, HDMI (PC/AV signal compatible) x 2, RS-232C x 1, 3.5 mm-diameter mini stereo jack x 1			
Output Termina	ls*3	DisplayPort x 1, 3.5 mm-diameter mini stereo jack x 1, RS-232C x 1			
Input/Output Te	rminals*3	LAN: 10Base-T/100Base-TX x 1			
Power Supply Te	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 Speaker	s	10 W + 10 W			
Mounting		VESA (4 points), 400 m	m pitch, M6 screw	VESA (4 points), 200 mm pitch, M6 screw	
Power Consump	otion	175 W	155 W	135 W	
Operating Environmental Temperature*4		0°C to 40°C			
Conditions	Operating Humidity	20% to 80% RH (no co	ndensation)		
Dimensions (W x D x H) (approx.) (display only)		1,231 x 57 x 702 mm	1,095 x 57 x 626 mm	949 x 57 x 543.5 mm	
Weight (approx.)		25 kg	19.5 kg	15.5 kg	
Main Accessories		AC power cord, remote control unit, battery (AAA size x 2), CD-ROM, set-up manual, cable clamp x 2, ceiling mounting bracket x 4, ceiling mounting bracket fixing screw x 4, logo sticker			

*'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. *'D-sub input terminal only. *'JUse a commercially available connection cable for PC and other video connections. *'When 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 equipments.

Designed for Impact – Sized for Flexibility

Sharp's large format **PN-E803** is the perfect and elegant high-performance monitor for a diverse range of retail, office and public space applications. With a design philosophy allowing for demanding 24/7 operation, the **PN-E803** represents Sharp's latest innovative insight and unparalleled experience in providing optimised and dedicated information display solutions.

The **PN-E803** offers a slim bezel and shallow cabinet depth thanks to its state-of-art LED backlight technology allowing for the perfect landscape or portrait installation. Packed with Sharp's premium UV²A LCD technology – the **PN-E803** offers the brightest whites and deepest blacks with vivid colours for an outstanding image quality perfect for retail signage, office receptions and public spaces.

KEY FEATURES | PN-E803

- 80" (203,2 cm) diagonal screen
- 1920 x 1080 pixel resolution
- Attractive slim bezel and cabinet for eye-catching display elegance
- Energy efficient LED backlight with class leading UV²A technology
- High contrast ratio 5.000:1
- 24/7 Operation, built-in temperate regulation
- Latest DisplayPort, HDMI and DVI connectivity



Model		PN-E803
Installation		Landscape/Portrait
		80-inch widescreen (203.2 cm diagonal) UV ² A LCD
	Max. Resolution	1,920 x 1,080 pixels
	Max. Display Colours (approx.)	1.06 billion colours
	Pixel Pitch (H x V)	0.923 x 0.923 mm
	Brightness*1	470 cd/m ²
LCD Panel	Contrast Ratio*2	5,000 : 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, full array
	Video	Analogue RGB (0.7 Vp-p) [75], Digital (conforms to DVI 1.0 standards), DisplayPort x 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), PAL, PAL60, SECAM
Input Terminals	*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 Terminal	S*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 Te	rminals*3	LAN port x 1
Built-in Speaker	S	10 W + 10 W
Power Supply		100V – 240V AC, 50/60 Hz
Power Consump	otion	280 W
Environmental	Operating Temperature	0°C to 40°C
Conditions	Operating Humidity	20% to 80% RH (no condensation)
Dimensions (W x D x H) (approx.) (display only)		1,850 x 96 x 1,072 mm
Weight (approx.)	57 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 Use a commercially available connection cable for PC and other video connections. *3 For both PC and AV components. *4 For PN-E803 only.

The Slimline LCD Displays that meet a Diverse Range of Signage Needs



These 70-inch and 60-inch Sharp monitors 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-E703/E603** will grab and keep the attention of your target audience.

KEY FEATURES | PN-E703/E603

- 70" (176.6 cm) diagonal screen size 60" (152.5 cm) diagonal screen size
- 1920 x 1080 resolution in dots
- 450 cd/m²
- UV²A technology
- Slim bezel design
- Contrast 4.000:1
- LED, edge lit
- 24/7 Operation



Model		PN-E703	PN-E603	
Installation		Landscape / Portrait		
		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 (approx.)	1.06 billion colours		
	Pixel Pitch (H x V)	0.802 x 0.802 mm	0.692 x 0.692 mm	
LCD Panel	Brightness*1	450 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), PAL, P	AL60, SECAM	
Input Terminals	*2	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	ls*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 Te	rminals	LAN port x 1		
Built-in Speaker	s	10 W + 10 W		
Power Supply		100V – 240V AC, 50/60 Hz		
Power Consumption		225 W 180 W		
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) (approx.)	1,578 x 39.4 x 916 mm	1,378 x 39.4 x 794 mm	
Weight (approx.)		43 kg	32 kg	

*¹Brightness 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. *²Use a commercially available connection cable for PC and other video connections. *³For both PC and AV components.

For Ultra-Bright Standalone Applications



For compelling digital signage, the **PN-A601** comes highly recommended. This 60-inch professional LCD monitor offers ultrahigh brightness of 2,000 cd/m² for superb visibility—even in brightly lit indoor settings. The PN-A601 also offers a choice of landscape or portrait installation, allowing customers to select the mode that best suits their display content and application.

KEY FEATURES | PN-A601

- 60" (152 cm) diagonal screen size
- 1920 x 1080 resolution in dots
- 2000 cd/m² and local dimming
- Bezel only 19,8 mm
- 24/7 50.000 hours life time max.
- 5.000:1 high contrast ratio
- 5 x 5 Multi-screen Capability (Enlargement)
- Module Slot System



Note: The PN-A601 is intended for use in indoor environments. If the monitor is to be installed in a location exposed to excessive direct sunlight such as a window front, consult your installer to determine if additional measures to reduce ultraviolet and infrared radiation and ambient temperature are required.

Model		PN-A601	
Installation		Landscape/Portrait	
		60-inch widescreen (152.5 cm diagonal), UV ² A LCD	
	Max. Resolution	1,920 x 1,080 pixels	
	Max. Display Colours (approx.)	1.06 billion colours	
	Pixel Pitch (H x V)	0.692 x 0.692 mm	
	Brightness*1	2,000 cd/m ²	
LCD Panel	Contrast Ratio	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)	1,329.1 x 747.6 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: positive/negative) Sync-on-green, Composite sync (TTL: positive/negative)	
Input	Plug & Play	VESA DDC2B	
	Power Management	VESA DPMS, DVI DMPM	
Video Colour System		NTSC (3.58 MHz, 4.43 MHz)*1 / PAL / PAL60 / SECAM	
		Standard - PC analogue: Mini D-sub 15-pin x 1* ² , HDMI (1080p compatible) x 1* ³ , 3.5 mm-diameter mini stereo jack x 1, Video* ^{2×4} , Component video* ^{2×4} , RS-232C: D-sub 9-pin x 1, Control Kit jack x 1	
Input Terminals'	*2	Via Optional PN-ZB01 Board - PC digital: DVI-D 24-pin (HDCP compatible) x 1, PC analogue: BNC x1* ^{5×6*7} , Video: BNC x 1* ⁴ , S-Video x 1, Component video: BNC (Y, Cb/Pb, Cr/Pr) x 1* ^{4×5} , Audio: RCA pin (L/R) x 2:	
		Standard - Audio: RCA pin (L/R) x 1, RS-232C: D-sub 9-pin x 1	
Output Terminal	ls*3	With Optional PN-ZB01- PC digital: DVI-D 24-pin x 1, External speakers: 7W + 7W (6)	
Input/Output Te	rminals	Via Optional PN-ZB01 Board - LAN port (10Base-T/100Base-TX)	
Built-in Speaker	s	_	
Power Supply		100V – 240V AC, 50/60 Hz	
Power Consumption		620 W	
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) (approx.)	1,374 x 147 x 793 mm (Display section only, not including protrusions)	
Weight (approx.	.)	45 kg	

*'Requires separately sold PN-ZB01 Interface Expansion Board. *2The mini D-sub 15-pin terminal can be used for PC analogue, video, or component video, all of which are selectable from the menu. When used with a video or component video source, a commercially available conversion cable is required. *3For both PC and AV components. *When the PN-A601 is equipped with the optional PN-ZB01 board, either the LCD monitor's standard-equipped video and component terminals or the PN-ZB01's video and component terminals can be selected for use from the menu. *The analogue and component BNC terminals are switchable. Use the menu to select. *For the proper display of 1,920 x 1,080 images, a separately sold graphics board with appropriate specifications is required. Consult your Sharp representative for more information. *Does not support plug & play.

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 new **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 Distributer Software for plug and play signage solutions. This enables content to be easily transfered directly to the displays via a LAN connection.

KEY FEATURES | PN-Y556/Y496/Y436/Y326

- New Heavy Duty Sharp display range with embedded USB player and SD Card storage
- 32" / 43 / 49" / 55" display sizes
- 450 cd/m² (PN-Y556 / Y496 / Y436), 400 cd/m² (PN-Y326) brightness
- 24/7 Operation
- 1920 x 1080 Resolution in dots
- HDMI + DVI (Daisy Chain) + VGA
- Proprietary SHARP Content Distributer software
- Fanless design
- Automatic default to USB player the screen never goes blank
- Installation: Portrait, Landscape format orientation. Unique Face Up + Face Down installation

Model		PN-Y556	PN-Y496	PN-Y436	PN-Y326	
Model		PIN-1000	FIN-1490	FN-1450	FN-1320	
		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 pi	(els			
	Max. Display Colours (approx.)	16.77 million colo	ours			
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 st	tandard-compliant)	, Analog RGB (0.7	Vp-p) [75 Ω]	
	Video colour system	NTSC (3.58MHz)/NTSC (4.43MHz)/PAL/PAL-60/SECAM				
Computer Input	Synchronisation	Horizontal/vertical separation (TTL: positive/negative)				
input	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 Terminal	s	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 (T	ype A)			
Built-in Speaker	S	7 W + 7 W 5 W + 5 W				
USB Power Sup	oly	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)		87W	76W	69W	
Power Requirem	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% RH	(no condensation)			
Dimensions (W (display only)	Dimensions (W x D x H) (approx.) (display only)		1097 x 46 x 634cm	965 x 46 x 559cm	724.5 x 56 x 424cm	
Weight (approx.)		18 kg	15 kg	10.5 kg	6 kg	

^{*1} 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. 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 ON: 0.5 W

Affordable Large Commercial Displays perfect for Signage and Meeting Rooms

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

KEY FEATURES | PN-Q901E/Q801E/Q701E/Q601E

- 60", 70", 80", 90" diagonal screen size*
- 350 cd/m²
- 1920 x 1080 resolution in dots
- UV2A technology
- Contrast 5000:1
- LED, edge
- 16/7 Operation
- 3-Year Warranty
- Integrated USB Media Player



*PN-Q901E / Q801E / Q601E will be available from summer 2017

Model		PN-Q701E	
Installation		Landscape	
		70" Class TFT LCD	
	Max. Resolution	1,920 x 1,080 pixels	
	Max. Display Colours (approx.)	1.07 billion colours	
	Pixel Pitch (H x V)	0.8015 x 0.8015 mm	
	Brightness*1	350 cd/m ²	
I CD Panel	Contrast Ratio	5,000 : 1	
	Dynamic Contrast Ratio	4,000,000 : 1	
	Viewing Angle (H/V)	176°/176° (CR ≥10)	
	Active Screen Area (W x H)	60.6″ x 34.0″	
	Response Time	4 ms (grey to grey, avg.)	
	Backlight	LED, edge lit	
	Video	HDMI, Analogue RGB	
Computer Input	Synchronisation	Horizontal/vertical separation (TTL: positive/negative)	
mput	Plug & Play	VESA DDC2B	
Video Colour System		NTSC-M/PAL-N/PAL-M	
Input Terminals	*2	HDMI x 3, Mini D-sub 15-pin x 1, Component Video RCA (Y, Ch/Pb, Cr/Pr) x 1, Composite Video RCA pin x 2, RCA pin (L/R) x 2, 3.5 mm-diameter mini stereo jack x 1, RS-232C x 1, USB x 1	
Output Termina	als*2	Audio: RCA pin (L/R) x 1, Digital audio output (optical) x 1	
Input/Output Te	erminals*2	Ethernet RJ-45 x 1	
Built-in Speakers		10W + 10W	
Power Supply		110 – 240V AC, 50/60Hz	
Power Consumption		180 W	
Operating Temperature		0°C to 40°C	
Dimensions (W x D x H) (approx.) (display only)		1,563 x 87 x 908 mm	
Weight (approx	K.)	33.5 kg	

LL-S201A

Monitor with Extreme Touch Sensitivity

Sharp's 20" Class Full HD LCD monitor with touch screen capability brings a new dimension of interactive functionality to the workplace. This 20" class touch LCD panel delivers full HD resolution with performance enhancing UV²A technology. Its 10-point multi-touch screen provides extremely quick response for writing and gestures and serves as the perfect intuitive interface for running Windows[®] 8.



KEY FEATURES | LL-S201A

- 20" Class (49.5 cm) diagonal screen
- 10-point Multi- Touch Screen, Compatible with Windows 8
- Various Usage Styles: Standing, Pen Writing, Horizontal
- UV²A technology
- Contrast 3.000:1
- LED , Edge-Lit
- 1920 x 1080 resolution in dots



Model		LL-S201A	
Installation		Landscape / Portrait*1	
		20 inch-class (49.5 cm diagonal) UV2A LCD (16 : 9)	
	Max. Resolution	1,920 x 1,080 pixels	
	Max. Display Colours (approx.)	16.7 million colours	
	Pixel Pitch (H x V)	0.225 x 0.225 mm	
	Brightness*2	250 cd/m ²	
LCD Panel	Contrast Ratio	3,000 : 1	
	Viewing Angle (H/V)	178°/178° (CR ≥10)	
	Active Screen Area (W x H)	432 x 243 mm	
	Response Time	5 ms (grey to grey, avg.)	
	Backlight	LED, edge-lit	
	Video	_	
Computer	Synchronisation	-	
Input	Plug & Play	VESA DDC2B	
	Power Management	_	
Video Colour System		_	
Input Terminals	*3	DisplayPort x 1, HDMI™/MHL™ x 1	
Output Terminal	ls	Micro-USB x 1 (for touchscreen operation), 3.5 mm-diameter mini stereo jack x 1	
Input/Output Te	rminals		
Built-in Speaker	s	1 W + 1 W	
Power Supply		AC 100 V–240 V, 50/60 Hz, DC 19 V	
Power Consump	otion	26 W / 35 W*	
Environmental	Operating Temperature	0°C to 35°C	
Conditions	Operating Humidity	20% to 80% RH (no condensation)	
Dimensions (W x D x H) (approx.) (display only)		463.8 x 25.2 x 274.8 mm	
Weight (approx.)		Without stand: 2.3 kg With stand: 2.9 kg	

 *1 Portrait installation not supported when used with bundled variable-angle stand. *2 Supports Finger-only mode. *3 Mouse operation only.



Multi-touch LCD monitor with a digitizer function

The **LL-P202V** is a 20-inch-class multi-touch LCD monitor with a digitizer function that lets you write directly on the display with the bundled digitizer pen. This monitor opens up a broad range of possible applications when used in concert with graphics software or with office software such as Microsoft[®] Word, Excel[®], PowerPoint[®], and Outlook[®].

KEY FEATURES | LL-P202V

- 20" Class (49.5 cm) diagonal TFT LCD (16:9)
- Brilliant High Definition 1920 x 1080 LED Display
- Contrast Ratio : 3.000:1
- Capacitive Touch
- Digitizer Pen
- 10-Point Multi-Touch Capability
- Weight 2.3kg



Model		LL-P202V
Installation		Landscape / Portrait*1
		20-inch-class (49.5 cm diagonal) TFT LCD
LCD Panel	Max. Resolution	1,920 x 1,080 pixels
	Max. Display Colours (approx.)	16.7 million colours
	Pixel Pitch (H x V)	0.272 x 0.272 mm
	Brightness*1	250 cd/m ²
	Contrast Ratio	3,000 : 1
	Viewing Angle (H/V)	178°/178° (CR ≥10)
	Active Screen Area (W x H)	432 x 243 mm
	Response Time	5 ms (grey to grey, avg.)
	Backlight	LED, edge-lit
Computer Input	Video	-
	Synchronisation	-
	Plug & Play	VESA DDC2B
	Power Management	—
Video Colour System		_
Input Terminals		DisplayPort x 1, HDMI™/MHL™ x 1
Output Terminals		USB 2.0 (type A) x 1
Input/Output Terminals		—
Built-in Speakers		1 W + 1 W
Power Supply		AC 100 V–240 V, 50/60 Hz, DC 19 V
Power Consumption		41 W (29 W ^{*2})
Environmental Conditions	Operating Temperature	0°C to 35°C
	Operating Humidity	20% to 80% RH (no condensation)
Dimensions (W x D x H) (approx.) (display only)		463.8 x 25.2 x 274.8 mm
Weight (approx.)		2.3 kg

*1Portrait installation not supported when used with bundled variable-angle stand.

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 fan-less architecture offers more reliability with zero operating noise.

Sharp is introducing 3 Mini OPS modules over 2017 which are compatible with Sharp's new PN-R and PN-40TC1.



Mini OPS PC Module (PN-ZB03C)

- 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

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