SHARP

PN-R426/PN-R496/PN-R556/PN-R606/PN-R706/PN-R903
Professional LCD Displays

Endless possibilities will create the right impression /This is Why Sharp gives you complete control.

The newly enhanced PN-R range of LFD's from Sharp offers the highest levels of quality and performance. Flexibility is further enhanced by the Mini-OPS expansion slot. Offering robust and reliable performance, and offering high-impact visual possibilities for business, these professional high-end LFD's are the choice for corporate and digital signage applications.

YOUR BUSINESS IN ITS BEST LIGHT WITH SHARP'S NEW HIGH BRIGHT HEAVY DUTY LARGE FORMAT DISPLAYS.

Maximum impact when you really need it

The PN-R range of LFDs are available in a variety of sizes: 42", 49", 55", 60", 70" and 90". The PN-R903A offers true life-size image reproduction, which towers seamlessly above other professional LCD displays in size, quality, and impact. Thanks to the near-complete edge-to-edge visual canvas, and high bright 700cd/m^2 that runs throughout the range, images are brought to life like never before, making the PN-R series the perfect choice.

To add maximum impact to your chosen location, Sharp's PN-R range supports 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, with the exception of only the largest display size[1].

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.

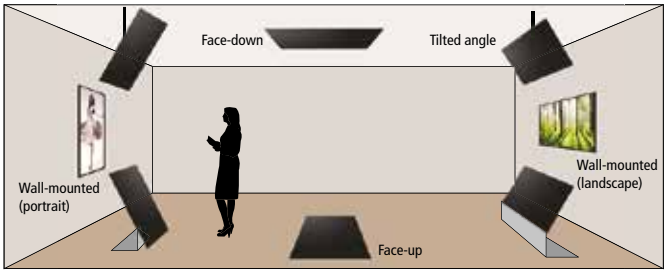
[1]PN-R903

You need maximum impact from your visual content /This is Why we give you stunning visual clarity.

Captivating retail experiences with high brightness in mind

In a typical retail store environment, digital signage displays need to be near the front of the store, to catch shoppers' attention as soon as they enter the premises - or even beforehand. A clear, bright visual display is paramount in any environment where screen visibility may be impacted by ambient background light. The PN-R range's 700cd/m^2 brightness is ideal for such a setting.

Built in speakers eliminate the need for external speakers and keep the monitors stylishly streamlined. Thanks to the integrated 10 + 10 W speakers in each display the PN-R is equipped to ensure your audio information and music will be heard crystal clear.



Durable, reliable, and always ready to impress

The PN-R range has been built with performance in mind, so that you can rely on its ability to impress, 24 hours a day, seven days a week.

From the power-on delay, which eliminates the risk of damage caused through power surges, to the fan-less architecture, which means airflow is maintained and heat is dissipated without the use of noisy, dust-creating mechanical air ventilation fans, the PN-R range is built to last and to endure a demanding usage regime, with no loss of quality or impact. There is even a temperature sensor constantly monitoring heat levels inside the units to keep things within normal operating levels.

We know you want to have the ultimate confidence in your displays, but what you want most of all is for the content on show to create the best possible impression. The PN-R range lets you display the same digital content on a series of 'daisy-chained' screens, or address each unit individually in a video wall array, or when part of a networked display system, giving you even more content possibilities.

The range also features the truly eye-catching Enlarge Zoom Display Mode, which allows a single enlarged image to be shown across several grouped displays, and auto aligns with other displayed visuals.

You need flexibility and control /This is Why the PN-R series expands your possibilities.

Mini OPS HDBaseT (option)

Many stores have their signage content server in a separate, cooled room at the back of the store. If it's any more than 10 metres from the screen, standard HDMI cables won't work. But the optional Mini-OPS HDBaseT receiver and the HDBaseT CAT cable running to the server provides the perfect solution for transporting video signals over long distances.

This brings convenient connectivity with HDMI devices such as PCs and BluRay Disk players. Compatibility with the HDBaseT 2.0 standard allows you to remotely operate a PC from a USB device connected to the optional board. With HDBaseT 2.0 support, you can use fewer cables and reduce the time and cost of installation.

PN-ZB03H HDBaseT Receiver Board	
Supported standard	HDBaseT 2.0
Maximum resolution	4,096 x 2,160 (30Hz)
Copy protection	HDCP pass-through
Tranmission distance	Up to 328 feet / 100m
Input/output terminals	HDBaseT x 1, LAN x 1 (10Base-T/100Base-TX), USB x 1 (USB x 1 (USB 2.0)
Power supply	From the monitor

Mini OPS Wireless (option)

In a busy emergency services control room, fast access to reliable information is vitally important. Especially if events are unfolding in real-time.

It could be that live photos from a road traffic accident are being sent direct from the scene of the incident to a mobile device in the emergency coordination centre. Ensuring immediate circulation of those images can enable the right decisions to be made in the heat of an emergency. But forwarding or downloading images - either via email or a USB cable to a PC - can place a heavy burden on precious time.

Control rooms using Sharp PN-R displays with integrated Mini-OPS Wireless modules will enable the emergency coordinator to wirelessly link the mobile device to the optional Mini-OPS wireless receiver installed in the display unit. Images can then be viewed collectively with minimal impact on time, meaning decisions such as which hospitals and clinics casualties should be sent to can be made without delay.

PN-ZB03W Wireless Board	
Maximum resolution	1,920 x 1,080 (30 Hz)
Wireless communication method	2.4GHz, IEEE802. 11b/g/n 5GHz, IEEE802. 11a/n
Input/output terminals	LAN x 1 (10Base-T/100Base-TX), USB x1 (USB 2.0), Wireless adapter x 1 (USB 2.0)
Power supply	From the monitor

Mini OPS Wireless (option)

Win/Mac/iOS/Android as supported PC and mobile device platforms.

Specifications

Model		PN-R426	PN-R496	PN-R556	PN-R606	PN-R706	PN-R903
Input Terminals		Landscape / Portrait / Face-up / Face-down			Landscape / Portrait / Face-up		Landscape / Portrait
LCD Panel		42-inch widescreen (41 7/8-inch [106.47 cm] diagonal) TFT LCD	49-inch widescreen (48 1/2-inch [123.20 cm] diagonal) TFT LCD	55-inch widescreen [54 5/8 inch (138.8cm) diagonal] TFT LCD	60" Class [60 inch (152.50cm) diagonal] TFT LCD	70" Class [69.5 inch (176.56cm) diagonal] TFT LCD	90-inch widescreen (228.7 cm diagonal) UV²A LCD
	Max. Resolution	1920 x 1080 pixels					
	Max. Display Colours (approx.)	1.07 billion colours			1 billion colours	16.7 million colours	1.06 billion colours
	Pixel Pitch (H x V)	0.483 mm × 0.483 mm	0.559 mm × 0.559 mm	0.630 mm × 0.630 mm	0.692 x 0.692 mm	0.692 x 0.692 mm	1.038 x 1.038 mm
	Max. Brightness*1 (average)	700 cd/m²					
	Contrast Ratio	1,300 : 1			4,000 : 1	5,000 : 1	1,000,000 : 1 (local dimming set to HIGH) 4,000 : 1 (local dimming OFF)
	Viewing Angle (H/V)	178°/178° (CR≥10)			176°/176° (CR≥10)		
	Active Screen Area (W x H) (approx.)	927.94 x 521.96 mm (36 9/16" x 20 9/16")	1,073.8 x 604.0 mm (42 1/4" x 23 3/4")	1,209.6 x 680.4 mm (47 5/8" x 26 13/16")	1,329.12 x 747.63 mm	1,538.88 x 865.62 mm	1,993.0 x 1,121.0 mm (78 7/8" x 44 1/8")
	Response Time	8ms (grey to grey, avg.)					6ms (grey to grey, avg.)
	Backlight	LED, edge lit					LED, full array
Computer Input	**Video**	Analogue RGB (0.7 Vp-p) [75Ω], Digital (DVI 1.0 standard–compliant), DisplayPort 1.2, HDMI			Digital (DVI 1.0 standard-compliant), Analog RGB (0.7 Vp-p) [75 Ω],DisplayPort 1.2, HDMI		Analogue RGB (0.7 Vp-p) [75Ω], Digital (conforms to DVI 1.0 standards), DisplayPort 1.1
	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		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, 3.5mm mini stereo jack x 1, D-sub 9 pin x 1					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 Terminals*3		DisplayPort x 1, 3.5mm mini stereo jack x 1, D-sub 9 pin x 1					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 Terminals*3		10BASE-T/100BASE-TX					LAN x 1
Power Supply Terminal		5 V, 2 A (5V, 500 mA when the expansion slot is used) (USB type-A connector)					100V – 240V AC, 50/60 Hz
Expansion Slot		12V, 2.4 A (power supplied when expanding the functions with an optional part)					-
Built-in Speakers		10 W + 10 W					
Mounting		VESA (4 points), 200 mm (7 7/8") pitch, M6 screw	VESA (4 points), 400 mm (15 3/4") pitch, M6 screw		VESA (4 points), 400 mm (15 3/4") pitch, M6 screw		VESA (4 points), 600 x 600 mm (23 5/8" x 23 5/8") pitch; VESA (4 points), 600 x 400 mm (23 5/8" x 15 3/4") pitch
Power Supply		100V – 240V AC, 50/60 Hz					
Power Consumption (Input signal waiting mode*5 / standby mode*6)		135 W (2.5W / 0.8W)	155 W (2.5W / 0.8W)	175 W (2.5W / 0.8W)	190 W (2.5W / 0.8W)	230 W (2.5W / 0.8W)	660 W max (Local Dimming OFF)
Environmental Conditions	**Operating Temperature***4	0°C to 40°C					
	Operating Humidity	20% to 80% RH (no condensation)					
Dimensions (W x D x H) (approx.) (display only)		949 x 57 x 543.5 mm	1,095 x 57 x 626 mm	1,231 x 57 x 702 mm	1,352 x 60 x 778 mm	1,579 x 65 x 918 mm	2,055 x 122 x 1,197 mm
Weight (approx.)		15.5 kg	19.5 kg	25 kg	40 kg	45 kg	75 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					

Notes

*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. *2 D-sub input terminal only. *3 Use a commercially available connection for PC and other video connections. *4 When using the monitor laying flat on a surface (when the monitor is tilted more than 20 degrees upward or downward from the perpendicular in relation to a level surface), use the monitor at a temperature between 0°C and 30C. Temperature condition may change when using the monitor together with the optional equipments recommended by SHARP. In such cases, please check the temperature condition specified by the optional equipments. *5 When SUPPLY USB POWER is set to POWER ON ONLY and no optional part is attached. *6 When POWER SAVE MODE is set to OFF, SUPPLY USB POWER is set to POWER ON ONLY, and no optional part is attached. When POWER SAVE MODE is set to ON: 0.5 W.

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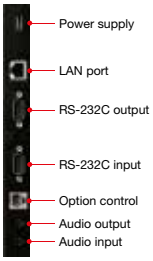
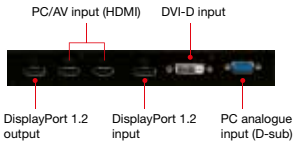
Standard

(Side)

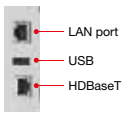


(Bottom)

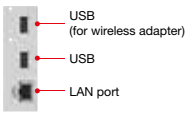


Option

PN-ZB03H



PN-ZB03W



An optional board can slide into the slot on the back of the monitor.

SHARP

Inspiring ideas from technology

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