

## SHARP QUALITY AND BRILLIANCE FOR VIDEO WALLS OF VIRTUALLY LIMITLESS SIZE AND POTENTIAL



Introducing the 60" diagonal class PN-V602 LCD Video Wall Monitor with exceptionally high 1500 cd/m<sup>2</sup> brightness, extraordinary image quality and ultra-slim bezel design. While its superior brightness enables the PN-V602 to be used in high ambient light and window facing applications, its streamlined bezel, full array LED backlight and large screen size makes this the ideal monitor for nearly seamless, high impact video walls.

## High Brightness, High Visibility

With exceptionally high brightness of 1,500 cd/m<sup>2</sup>, the PN-V602 excels in brightly lit indoor applications including window facing settings with high ambient light. Its high contrast helps ensure images are clearly visible from a distance, enabling PN-V602 video wall displays to be utilized in sports and entertainment facilities, transportation hubs, shopping malls and control centers where the PN-V602 can provide vivid high quality images, 24 hours a day, seven days a week.

## Local Dimming for High Contrast and Superb Energy Efficiency

Much of the PN-V602's exceptional performance – including outstanding black levels, high contrast and superb energy efficiency is due to local dimming of the LED backlight. Local dimming allows specific groups of LEDs to be dimmed for greater control of brightness and darkness in different areas of the screen. Since LEDs in a black area of the screen image can be independently turned off, local dimming can help to considerably reduce power consumption. This helps the PN-V602 deliver significantly better contrast (up to 1,000,000:1 contrast ratio with local dimming set to HIGH) and brightness (up to 1,500 cd/m<sup>2</sup>) compared to conventional LCD monitors, while utilizing significantly less power.



### Power Consumption Comparison\*

1,500 cd/m <sup>2</sup> Local dimming: OFF	500W
1,500 cd/m <sup>2</sup> Local dimming: HIGH	270W
(ref) 700cd/m <sup>2</sup> Local dimming: HIGH	155W

\* Down by approx. 46%

\* Results of Sharp measurements when displaying broadcast content (sub-clause 11.6) stipulated under IEC 62087 Ed. 2.0 and with brightness set to maximum. Note that the power consumption reduction will vary depending on the images displayed.

## Breathtaking Image Quality

The PN-V602's exceptional image quality comes from Sharp's industry leading LCD technologies. Sharp proprietary UV<sup>2</sup>A<sup>4</sup> technology incorporated into the 60" diagonal class LCD panel provides highly efficient use of light from the full-array LED backlight while simultaneously preventing light leakage. The results are exceptionally high quality images with bright whites, amazingly vivid colors and extremely deep blacks. Sharp's full-array LED backlight, with LED elements evenly positioned across the entire panel, helps ensure that Sharp multi-screen displays are bright, beautiful and uniform.

## Ultra-Slim Bezel for Dynamic Video Walls

The PN-V602 boasts one of the slimmest bezels in the industry, resulting in the lines between neighboring monitors in a video wall being only 6.5 mm\*<sup>1</sup> wide (2.4 mm right and bottom; 4.1 mm left and top)\*<sup>2</sup>. This enables the high impact display of video wall images of almost unlimited size and configuration. Optional Mirror Frames\*<sup>3</sup> are also available to further minimize lines between monitors by reflecting mirror images from the display content, helping create more dynamic video walls with an even smoother big picture effect.

## Choice of Installation Mode

The PN-V602 offers the choice of landscape, portrait or "face-up/face-down" installation. This allows customers to select the mode that best suits their content and application, greatly expanding the possibilities for video walls and digital signage displays.

\*1: Does not include the gap between the monitors. \*2: Non-display area for neighboring monitors is 7.1 mm. \*3: Visibility of the seams between monitors will vary depending on such factors as the on-screen images and the viewing angle. \*4: UV<sup>2</sup>A stands for "Ultraviolet-induced Multi-domain Vertical Alignment," a photo-alignment technology that ensures uniform alignment of liquid crystal molecules in a certain direction.

## Specifications (tentative)

Model Name	PN-V602	Video Color System	NTSC (3.58 MHz, 4.43 MHz)* <sup>2</sup> / PAL / PAL60 / SECAM		
Installation	Landscape / Portrait	Input Terminals* <sup>3</sup>	Standard PC analog: Mini D-sub 15-pin x 1* <sup>4</sup> , HDMI® (1080p compatible) x 1* <sup>5</sup> , 3.5 mm-diameter mini stereo jack x 1, Video* <sup>6</sup> , Component video* <sup>6</sup> , RS-232C: D-sub 9-pin x 1, Control Kit jack x 1		
LCD Panel	60-inch widescreen (152.4 cm diagonal), UV <sup>2</sup> A LCD	Via Optional PN-ZB02 Board	PC digital: DVI-D 24-pin (HDCP compatible) x 1, PC analog: BNC x 1, Video: BNC x 1* <sup>4</sup> , S-Video x 1, Component video: BNC (Y, Cb/Pb, Cr/Pr) x 1* <sup>6</sup> , Audio: RCA pin (L/R) x 2		
	Max. Resolution	1,366 x 768 pixels	Output Terminals* <sup>3</sup>		
	Max. Display Colors (approx.)	16.77 million colors	Standard	Audio: RCA pin (L/R) x 1, RS-232C: D-sub 9-pin x 1	
	Pixel Pitch (H x V)	0.973 x 0.973 mm	Via Optional PN-ZB02 Board	PC digital: DVI-D 24-pin x 1, External speaker: 10W + 10W (6 Ω)	
	Max. Brightness* <sup>1</sup>	1,500 cd/m <sup>2</sup>	Input/Output Terminals* <sup>3</sup>	Via Optional PN-ZB02 Board	LAN port (10Base-T/100Base-TX)
	Contrast Ratio	1,000,000 : 1 (local dimming set to HIGH) 5,000 : 1 (without local dimming)	Mounting	VESA (6 points), 200 mm (7 7/8") pitch, M6 screw or VESA (4 points), 200 mm (7 7/8") pitch, M6 screw	
	Viewing Angle (H/V)	176°/176° (CR ≥ 10)	Power Supply	100V – 240V AC, 50/60 Hz	
	Active Screen Area (W x H)	1328.8 x 747.1 mm (52 5/8" x 29 7/16")	Power Consumption	510W	
	Response Time	6 ms (gray to gray, avg.)	Environmental Conditions	Operating Temperature 0°C to 40°C	
	Computer Input	Video	Analog RGB (0.7 Vp-p) [75 Ω], Digital (conforms to DVI 1.0 standards)	Operating Humidity 20% to 80% RH (no condensation)	
Synchronization		Horizontal/vertical separation (TTL: positive/negative) Sync-on-green, Composite sync (TTL: positive/negative)	Dimensions (W x D x H) (approx.)	1,335.9 x 149.3 x 754.2 mm (52 5/8" x 5 7/8" x 29 11/16") (Display section only, not including protrusions)	
Plug & Play		VESA DDC2B	Weight (not including PN-ZB02) (approx.)	44 kg (97 lbs)	
Power Management		VESA DPMS, DVI DMPM	Packing Dimensions (W x D x H) (approx.)	1,580 x 381 x 932 mm (62 1/4" x 15" x 36 3/4")	

\*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 Requires separately sold PN-ZB02 Interface Expansion Board. \*3 Use a commercially available connection cable for PC and other video connections. \*4 The mini D-sub 15-pin connector may be used with an analog RGB computer source, component video source or composite video source. This is menu selectable. When used with a component or composite video source, a commercially available conversion cable is required. \*5 For both PC and AV components. \*6 When the PN-V602 is equipped with the optional PN-ZB02 board, either the LCD monitor's standard-equipped video and component terminals or the PN-ZB02's video and component terminals can be selected for use from the menu.

### Input/Output Terminals (standard)

### PN-ZB02 Interface Expansion Board (option)

### Other Options

- PN-ZR01 : Control Kit (remote controller and remote control sensor box)
- PN-ZR32 : Long Mirror Frame
- PN-ZR33 : Short Mirror Frame

Note: the PN-V602 is intended for use in indoor environments. If the display is 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 temperature are required.

Design and specifications subject to change without prior notice.

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