SHARP

Be Original.

Engage Your Audience
with a Brilliant Signage Solution

An Excellent Choice for High-Impact Video Walls

The PN-V602A is a professional LCD monitor with reliable image quality and a high brightness of 1,500 cd/m^2. It is designed to excel when used in video wall applications in brightly lit indoor locations. The monitor's slim bezel allows multiple units to be configured into an almost seamless, high-impact video wall. In a variety of locations, the PN-V602A makes for an outstanding digital signage solution.

High Brightness, High Visibility

A high luminance of **1,500 cd/m^2** enables the PN-V602A to perform superbly in brightly lit indoor locations, even those awash in sunlight. And thanks to the monitor's high contrast, onscreen images are clearly visible from a distance. This means the PN-V602A can be installed in places where it is well out of reach, but not out of sight. Indoor sports facilities, transport hubs, shopping centres, and event venues are just some of the many settings where the PN-V602A can give vivid display to high-quality images.
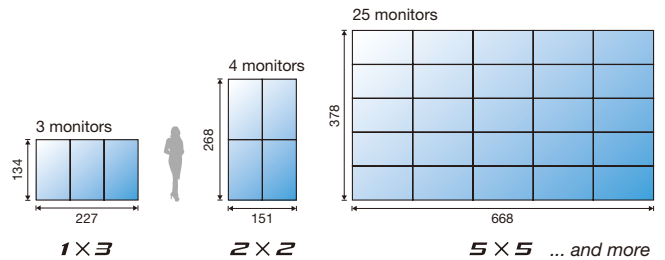
Reliable Image Quality

The PN-V602A incorporates Sharp's original **UV^{2}A*** technology, which prevents light leakage and ensures highly efficient use of light from the backlight. Thanks to this technology, the monitor achieves truly bright whites, amazingly vivid colours, and extremely deep blacks. Furthermore, a full-array **LED backlight** ensures uniform brightness across the entire monitor.

* UV^{2}A stands for Ultraviolet-induced Multi-domain Vertical Alignment, a photo-alignment technology that ensures uniform alignment of liquid crystal molecules.

Build a Video Wall to Match Your Needs

Multiple PN-V602A monitors can be joined together to create video walls configured to a variety of purposes and settings. Easy to assemble and easily controlled via the RS-232C interface or via a network*, video walls composed of Sharp PN-V602A monitors bring dynamic, high-impact exposure to commercial display content.

* The PN-ZB02 Interface Expansion Board is required for control via a network.

25 monitors
378
4 monitors
268
3 monitors
134
227
151
668

1 × 3   **2 × 2**   **5 × 5** ... and more
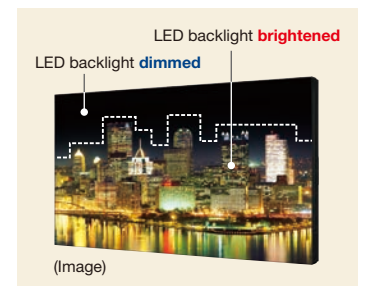
Choice of Installation Mode

The PN-V602A offers a choice of landscape or portrait installation, allowing customers to select the mode that best suits their display content and application.

High Contrast and Superb Energy Efficiency

The PN-V602A owes much of its outstanding black levels, amazing contrast, and superb energy efficiency to **local dimming** of the LED backlight. Local dimming allows specific groups of LEDs to be independently dimmed or brightened for greater control of the darkness and brightness in different areas of the monitor, resulting in considerably reduced power consumption. That's why the PN-V602A can deliver significantly better contrast and brightness than conventional LCD monitors while using remarkably less power.

Local Dimming

LED backlight **brightened**

LED backlight **dimmed**

(Image)

Power Consumption Comparison*

1,500 cd/m^2 Local dimming: OFF	500W
1,500 cd/m^2 Local dimming: HIGH	270W — Down by approx. 46%
(ref) 700 cd/m^2 Local dimming: HIGH	155W

* 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.

Makeup for that Big Night Out

Slim Bezel

The PN-V602A boasts a slim bezel that makes the lines between neighbouring monitors 6.5 mm[1] wide (2.4 mm right and bottom, 4.1 mm left and top)[2]. This enables the high-impact display of large, crisp images that capture and keep the attention of your target audience.
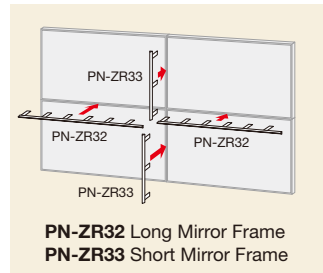
[1]: Does not include the gap between the monitors.
[2]: Non-display area for neighbouring monitors is 7.1 mm.
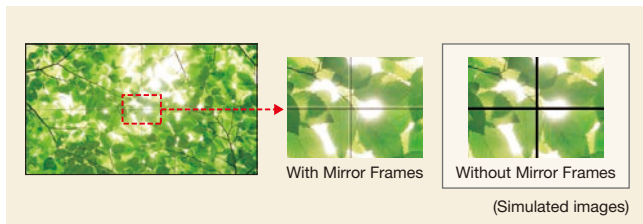
Mirror Frames (option)

In multi-screen configurations, optional Mirror Frames minimise* the visible lines between PN-V602A monitors by reflecting mirror images of the display content. This creates more dynamic video walls with an even smoother big-picture effect.

Mirror Frame Mounting

PN-ZR33
PN-ZR32   PN-ZR32
PN-ZR33

PN-ZR32 Long Mirror Frame
PN-ZR33 Short Mirror Frame

* Visibility of the seams between monitors depends on such factors as the onscreen image and the viewing angle.

Video Wall with Mirror Frames

With Mirror Frames   Without Mirror Frames

(Simulated images)

Brightness Sensor

The Brightness Sensor* function ensures clear visibility by automatically adjusting backlight brightness to complement surrounding brightness levels. In dark surroundings, backlight brightness automatically lowers, providing optimal viewing and energy savings as well.

* Requires optional PN-ZR01

Enlarge (Zoom) Display Mode (for up to 25 Monitors)

The Enlarge (Zoom) Display mode can spread one image from a PC across up to 25 monitors (in a 5 x 5 configuration). The Frame Width Adjustment function eliminates misalignments and boldly enhances the enlarged image on a video wall.

PN-ZR01 Control Kit (option)*

When one of the PN-V602A monitors in a video wall configuration is fitted with a remote control sensor box, all of the monitors can be conveniently operated through a single remote control unit.

* Required for a video wall installation.

Remote control unit   Remote control sensor box

24/7 Operation

The PN-V602A is rugged enough for continuous 24/7 operation in the most demanding professional applications.

Eco-Conscious Design

The PN-V602A conforms to the RoHS Directive restricting the use of hazardous substances.

Sharp Digital Signage Software (SDSS)

What SDSS Can Do

STEP 1   Easy Program Creation and Scheduling

Creating Programs
To facilitate program creation, users can determine screen layout and playback order for the content with straightforward mouse operation.

Creating and Editing Schedules
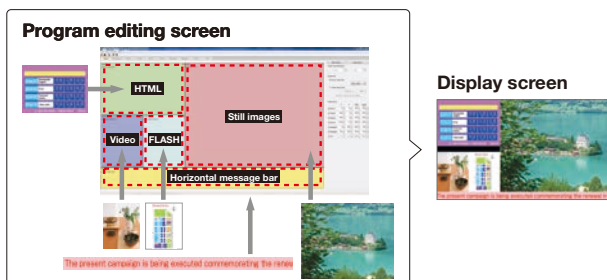Through drag-and-drop operation, users can easily specify the time and date at which programs are to be displayed.

STEP 2   Easy Delivery

Once STEP 1 is complete, the scheduled program can be sent to the target PC (where PN-SV01 is installed) for display.

STEP 3   Easy Management*

The operational status and the programs being displayed can be remotely monitored from a controller/operation PC(s), so that any problems that arise can be dealt with swiftly.

* Available on PN-SS02/SS05/SW05.

Program editing screen

HTML
Video FLASH
Still images
Horizontal message bar

Display screen

SDSS Packages to Match Signage Needs

In Stand-Alone Systems

PN-SS01 Stand-Alone Version
Scheduled programs can be **delivered** and **displayed** at a designated time on a **single LCD monitor**.

In Network Systems

PN-SS02 Network Version
Enables programs to be distributed **via the network to one or multiple PCs** for display on **up to 100 LCD monitors** according to a set schedule.

PN-SS05 Pro Version
Same functions as PN-SS02, plus support **for larger and more complex systems**. Can distribute scheduled programs to **up to 1,000 LCD monitors**.

PN-SW05 Pro Web Server Version
Same functions as PN-SS05 and **operable via a web browser**. Programs, schedules, and other items can be centrally stored and managed on a web server database (i.e., a controller PC), **accessible by up to 50 remote PCs**.

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PN-SV01 Viewer Version
Dedicated software for displaying scheduled programs on Sharp LCD monitors. To be used with PN-SS01/SS02/SS05/SW05 software.
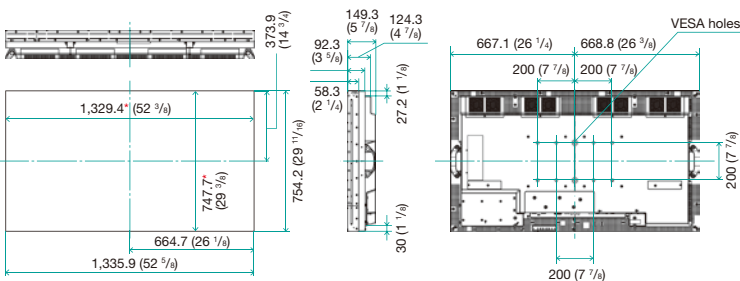
Note: This software requires a PC with Windows® OS. Availability of SDSS options depends on country or region. Consult your nearest Sharp representative for details.

Specifications

Model Name		PN-V602A
Installation		Landscape / Portrait
LCD Panel		60-inch widescreen (152.4 cm diagonal), UV²A LCD
	Max. Resolution	1,366 x 768 pixels
	Max. Display Colours (approx.)	16.77 million colours
	Pixel Pitch (H x V)	0.973 x 0.973 mm
	Max. Brightness[*1]	1,500 cd/m² (default: 1,400 cd/m²)
	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)	1,328.8 x 747.1 mm (52 ⁵/₈" x 29 ⁷/₁₆")
	Response Time	6 ms (grey to grey, avg.)
Computer Input	Video	Analogue RGB (0.7 Vp-p) [75 Ω], Digital (conforms to DVI 1.0 standards)
	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 System		NTSC (3.58 MHz, 4.43 MHz)[*2] / PAL / PAL60 / SECAM
Input Terminals[*3]	Standard	PC analogue: Mini D-sub 15-pin x 1[*4], HDMI (1080p compatible) x 1[*5], 3.5 mm-diameter mini stereo jack x 1, Video[*4*6], Component video[*4*6], RS-232C: D-sub 9-pin x 1, Control Kit jack x 1
	Via Optional PN-ZB02 Board	PC digital: DVI-D 24-pin (HDCP compatible) x 1, PC analogue: BNC x 1[*7*8*9], Video: BNC x 1[*6], S-Video x 1, Component video: BNC (Y, Cb/Pb, Cr/Pr) x 1[*6*7], Audio: RCA pin (L/R) x 2
Output Terminals[*3]	Standard	Audio: RCA pin (L/R) x 1, RS-232C: D-sub 9-pin x 1
	Via Optional PN-ZB02 Board	PC digital: DVI-D 24-pin x 1, External speaker: 10W + 10W (6 Ω)
Input/Output Terminals[*3]	Via Optional PN-ZB02 Board	LAN port (10Base-T/100Base-TX)
Mounting		VESA (6 points), 200 mm (7 ⁷/₈") pitch, M6 screw or VESA (4 points), 200 mm (7 ⁷/₈") pitch, M6 screw
Power Supply		100V – 240V AC, 50/60 Hz
Power Consumption		510 W
Environmental	Operating Temperature	0°C to 40°C
Conditions	Operating Humidity	20% to 80% RH (no condensation)
Dimensions[*10] (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")
Weight (not including PN-ZB02) (approx.)		44 kg (97 lbs)
Main Accessories		Cable clamp x 2, power cord x 1, CD-ROM x 1, setup manual x 1, protection cover x 4, handle screw (short) x 4, bezel sheet (long/short) x 2 each, bezel sheet attachment instructions x 1

[*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 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. [*5] For both PC and AV components. [*6] When the PN-V602A is equipped with the optional PN-ZB02 Interface Expansion 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. [*7] The analogue and component BNC terminals are switchable. Use the menu to select. [*8] For the proper display of 1,366 x 768 images, a separately sold graphics board with appropriate specifications is required. Consult your Sharp representative for more information. [*9] Does not support plug & play. [*10] Display section only, not including protrusions.
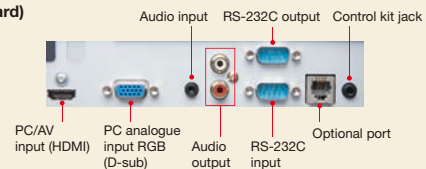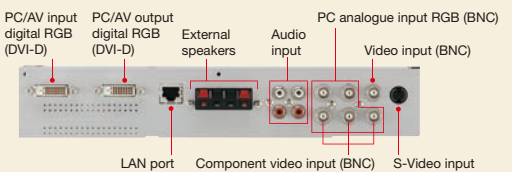
Dimensions

Units: mm (inch)
* Screen dimensions
* To use the VESA-standard mounting bracket, use M6 screws that are 8 to 10 mm plus the thickness of the bracket.

Input/Output Terminals

(standard)

Audio input · RS-232C output · Control kit jack
PC/AV input (HDMI) · PC analogue input RGB (D-sub) · Audio output · RS-232C input · Optional port

(option) PN-ZB02 Interface Expansion Board

PC/AV input digital RGB (DVI-D) · PC/AV output digital RGB (DVI-D) · External speakers · Audio input · PC analogue input RGB (BNC) · Video input (BNC)
LAN port · Component video input (BNC) · S-Video input

Other Options

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

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