MORE STYLE, MORE IMPACT
IN ANY SPACE

Bigger is better when you want your message to be seen
/This is Why Sharp's 55-inch full-HD monitor gives you
more choice for video wall installations

You need to stand out from the crowd to get people's attention /This is Why Sharp's high-quality video wall solution offers style and precision

Sharp's 55-inch PN-V551 professional LCD monitor features a 3.5 mm*[1] ultra-slim bezel that gives you the flexibility to build video walls with the dimensions to grace virtually any commercial or public space. Whether installed in a shopping mall, hotel or a control room - a bank of these monitors will convey your message with overwhelming style and precision.

Dynamic Video Wall setup delivers high visual impact

Whether in a commercial or business setting, multiple ultra-HD PN-V551 monitors can be joined together to create an eye-catching video wall that expands the reach of your message. Multi-monitor configurations are easy to assemble and easy to control via the RS-232C interface or via a LAN network.

5 x 5 video wall
(Simulated image)

Excellent Image Quality

The PN-V551 monitor combines full-HD (1,920 x 1,080-pixel) resolution with a display brightness of 700 cd to deliver stunningly bright and detailed images. Full-HD resolution ensures that everything from fine text to intricate graphics is displayed crisply and clearly. Due to their perfect white point and colour uniformity four PN-V551 monitors set up in a 2 x 2 configuration, can beautifully and cost effectively render every single pixel of 4K Ultra HD (3,840 x 2,160-pixel) content in a form equivalent to a 110-inch LCD monitor.

Sharp's Advanced UCCT and Colour Calibration Process

A 3D 'pixel to pixel' Mura correction is performed at factory on production line using Sharp's 'UCCT' software (Uniform Color Calibration Technology). Using the very accurate L*ab methodology, all chromatic, luminance and hue values are calculated to remove any Mura impurity from the entire display screen area achieving a consistent uniformity of the white point and of all colors across each display from screen edge to center, and between all displays across the entire video wall

This advanced Mura correction process is eventually saved onto a unique combination of separate Look Up Tables (LUT) on board every PN-V551 display, (i.e. known as "hardware calibration"), permanently saving and applying all correction data to obtain a consistent and uniform color rendering across each display from screen edge to center, and between all displays across the entire video wall, regardless to any input signal the display is fed from.

In addition and along this very precise "UCCT" Mura correction, Sharp's factory calibration process precisely adjusts the white point and colors to a pre-defined common temperature target across each display from screen edge to center, and between all displays across the entire video wall.

Before Sharp's Mura correction and colour calibration

After Sharp's Mura correction and colour calibration

*[1] 3.5 mm is the minimum combined frame width for neighbouring monitors, excluding the gap between the monitors.

Ultra-Slim Bezel

The ultra-slim bezel on a PN-V551 monitor enables you to combine multiple units to create a virtually seamless digital canvas. The bezels of adjacent monitors in a video wall combine for a total bezel width of just 3.5 mm*².
This enables the display of large, crisp images with minimal distraction and maximal impact.

3.5 mm

3.5 mm

Four-Corner Carrying Handles for Safe Setup

To ensure safe handling of a PN-V551 monitor, all four of its corners are fitted with robust carrying handles. Together with the monitor's light weight of 27.5 kg, these handles enable safe transport and easy, time-saving installation—whether installing vertically or horizontally.

Control Kit (PN-ZR01A)

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

Remote controller

Remote control sensor box

Mirror Frames (PN-ZR42/ZR43*³)

In multi-monitor configurations, optional Mirror Frames minimise*⁴ the visible lines between slim-bezel PN-V551 monitors by reflecting mirror images of the display content. This creates more dynamic video walls and an even smoother big-picture.

A Multi-Monitor Configuration with Mirror Frames

(Simulated images)

Without Mirror Frames

With Mirror Frames

24/7 Operation

Purposely built for 24/7 application, the PN-V551 monitor is ideal for use in 24-hour stores and in other demanding professional applications that require round-the-clock operation seven days a week.

Energy Efficiency

The PN-V551 conforms to the ENERGY STAR® programme, an international system for identifying energy-efcient products.

ENERGY STAR

*² Minimum combined frame width for neighbouring monitors, excluding the gap between them. 1.2mm on the right and bottom sides, and 2.3 mm on the left and top sides. Non active screen area for neighboring monitors is 3.9mm.
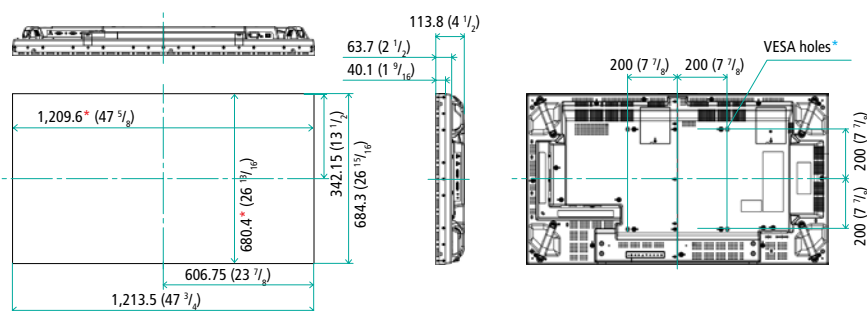*³ PN-ZR42: long mirror frame; PN-ZR43: short mirror frame
*⁴ The visibility of the seams between monitors varies depending on such factors as the on-screen image and the viewing angle.

Specifications

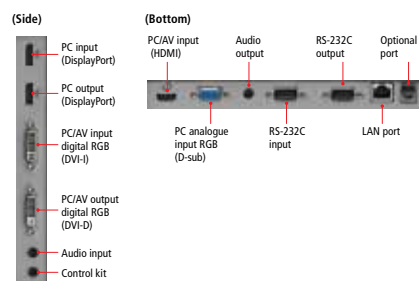| Model	PN-V551
Installation	Landscape / Portrait
LCD Panel	55-inch widescreen (138.8 cm diagonal) TFT LCD
Max. Resolution	1,920 x 1,080 pixels
Max. Display Colours (approx.)	16.77 million colours
Pixel Pitch (H x V)	0.63 x 0.63 mm
Max. Brightness (average)*1	700 cd (default: 550 cd)
Contrast Ratio*2	3,500 : 1
Viewing Angle (H/V)	178°/178° (CR 10)
Active Screen Area (W x H)	1,209.6 x 680.4 mm (47 5/8" x 26 13/16")
Response Time	8 ms (grey to grey, avg.)
Backlight	LED, full array
Computer Input Video	Analogue RGB (0.7 Vp-p) [75], Digital (conforms to DVI 1.0 standards), DisplayPort 1.1
Synchronisation	Horizontal/vertical separation (TTL: positive/negative), Sync-on-green*2, Composite sync*2 (TTL: positive/negative)
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*3	HDMI™*4 x 1, Mini D-sub 15-pin x 1*5, video x 1*5, Component video x 1*5, DisplayPort x 1, DVI-I-29 pin (HDCP compatible) x 1, 3.5 mm-diameter mini stereo jack x 1, RS-232C x 1, D-sub 9-pin x 1, Control kit terminal x 1
Output Terminals*3	DisplayPort*6 x 1, DVI-D 24-pin (HDCP compatible) x 1, 3.5 mm-diameter mini stereo jack x 1, RS-232C x 1, D-sub 9-pin x 1
Input/Output Terminals*3	LAN port
Mounting	VESA (4 points), 400 mm (15 3/4") pitch
Power Supply	100V—240V AC, 50/60 Hz
Power Consumption	210 W
Environmental Conditions Operating Temperature	0°C to 40°C
Operating Humidity	20% to 80% RH (no condensation)
Dimensions*7 (W x D x H) (approx.) (display only)	1,213.5 x 113.8 x 684.3 mm (47 3/4" x 4 1/2" x 26 15/16")
Weight (approx.) (display only)	27.5 kg (60.2 lbs)
Main Accessories	Cable clamp x 4, cable clamp (insertion type) x 2, power cord x 1, CD-ROM x 1, set-up manual x 1, remote control sensor box mounting hole concealing sticker x 2

Dimensions

113.8 (4 1/2)
63.7 (2 1/2)
40.1 (1 9/16)
1,209.6* (47 5/8)
342.15 (13 1/2)
680.4* (26 13/16)
684.3 (26 15/16)
606.75 (23 7/8)
1,213.5 (47 3/4)
200 (7 7/8) 200 (7 7/8)
VESA holes*
200 (7 7/8) 200 (7 7/8) 200 (7 7/8)

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

(Side)
- PC input (DisplayPort)
- PC output (DisplayPort)
- PC/AV input digital RGB (DVI-I)
- PC/AV output digital RGB (DVI-D)
- Audio input
- Control kit

(Bottom)
- PC/AV input (HDMI)
- Audio output
- RS-232C output
- Optional port
- PC analogue input RGB (D-sub)
- RS-232C input
- LAN port

Options

- PN-ZR01A : Control Kit
  (remote controller and remote control sensor box)
- PN-ZR42 : Long Mirror Frame
- PN-ZR43 : Short Mirror Frame

This is Why

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Notes

SHARP ELECTRONICS (EUROPE) GMBH
VISUAL SOLUTIONS DIVISION
FREISINGER STR. 9
85716 UNTERSCHLEISSHEIM
GERMANY

EMAIL: Europe-visualsolutions@sharp.eu