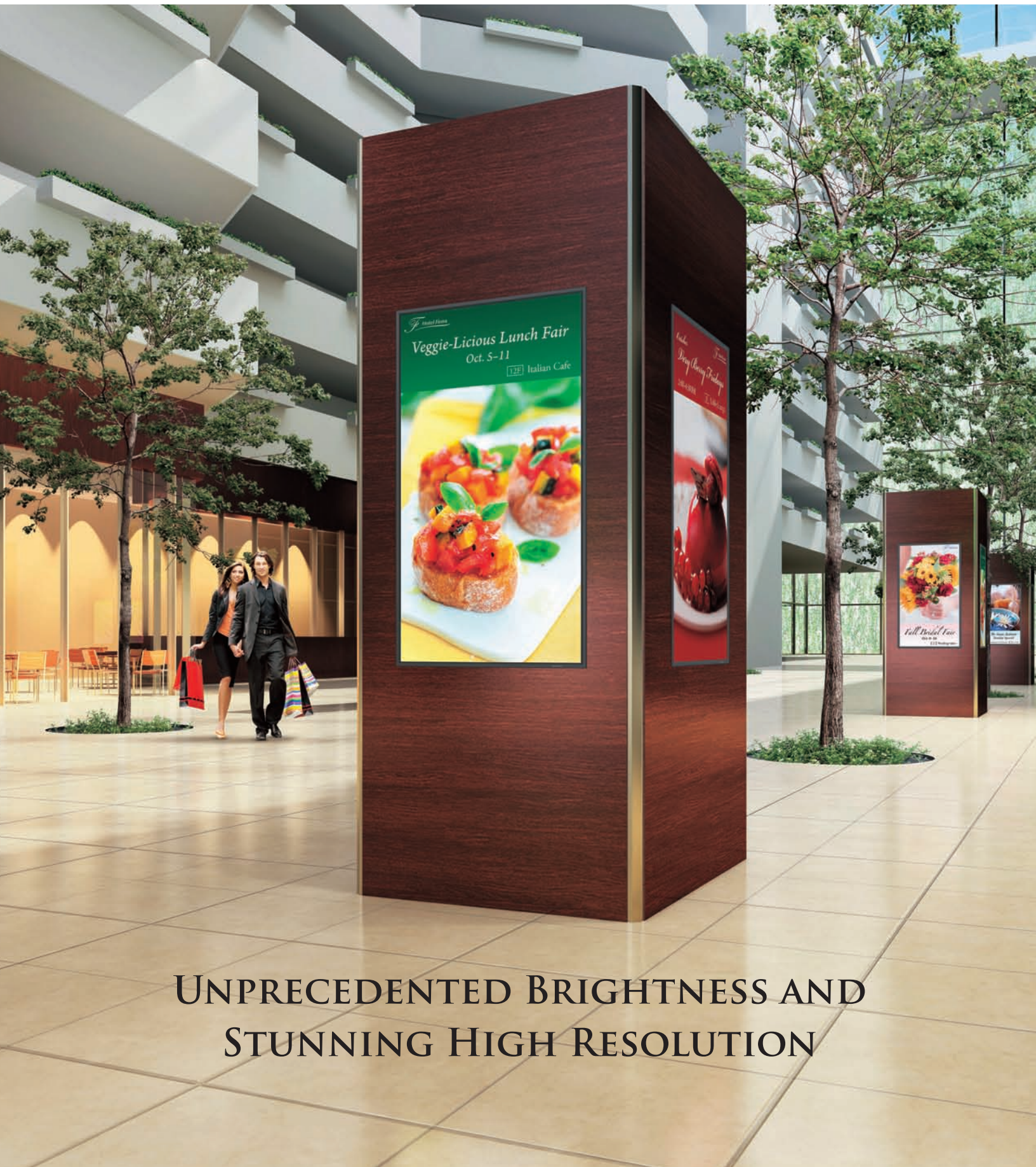


SHARP®

PN-A601

60" Class (60" diagonal) LED-LCD Monitor
with Ultra-High Brightness (2,000 cd/m²)



UNPRECEDENTED BRIGHTNESS AND
STUNNING HIGH RESOLUTION

For compelling digital signage in shopping malls, transportation hubs, college campuses and sports and entertainment facilities, the Sharp PN-A601 is a smart choice. This 60" class (60" diagonal) LED-LCD monitor offers ultra-high brightness of 2,000 cd/m² for superb visibility, even in brightly lit window-facing indoor settings. The PN-A601 also provides exceptionally high image quality in full 1080p HD, with the energy savings efficiency of a full-array LED backlight in combination with local dimming.



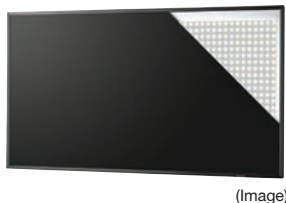
Remarkable High Brightness and Visibility

With its ultra-high brightness of 2,000 cd/m², the PN-A601 provides eye-catching digital signage in office complexes, hotels, public spaces, store window displays and many other brightly lit interior applications. The display's exceptionally high contrast ratio further helps ensure images are clearly visible, even in indoor settings with high ambient light.

Breathtaking Image Quality

The PN-A601's exceptional image quality comes from Sharp's industry leading LCD technologies. Sharp proprietary UV2A* technology incorporated into the 60" class (60" diagonal) 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. In addition, the PN-A601's full HD resolution of 1,920 (H) x 1,080 (V) pixels helps guarantee everything from fine text to intricate graphics are stunningly crisp and clear.

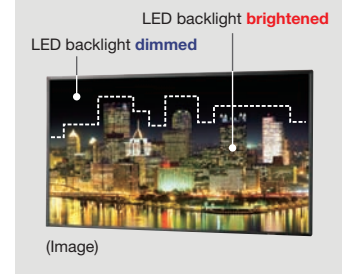
* UV2A stands for "Ultraviolet-induced Multi-domain Vertical Alignment," a photo-alignment technology that ensures uniform alignment of liquid crystal molecules in a certain direction.



Local Dimming for High Contrast and Superb Energy Efficiency

Much of the PN-A601'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-A601 deliver significantly better contrast (up to 1,000,000:1 contrast ratio with local dimming set to HIGH) and brightness (up to 2,000 cd/m²) compared to conventional LCD monitors, while utilizing less power.

Local Dimming



Power Consumption Comparison*

2,000 cd/m ² Local dimming: OFF	570W
2,000 cd/m ² Local dimming: HIGH	280W
(ref) 500 cd/m ² Local dimming: HIGH	140W

Down by approx. 50%

* 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.



Dual Screen Display

Picture-in-Picture (PIP) mode allows an AV-sourced image to be displayed within a PC-sourced one (or vice versa), while Picture-by-Picture (PbyP) mode puts images from AV and PC sources side by side for split-screen viewing.

• Picture-in-Picture mode



PC display AV display

• Picture-by-Picture mode

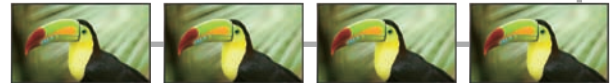


AV display PC display

Mirror Display Mode (Daisy Chain)

With Mirror Display mode*, the same image can be displayed on a daisy chain of PN-A601 monitors for the powerful impact of visual repetition.

* Requires DVI-D cable.



Choice of Installation Mode

The PN-A601 offers the choice of landscape or portrait installation. This allows customers to select the mode that best suits their content and application.

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

The Enlarge (Zoom) display mode* can spread one image across up to 25 monitors (in a 5 x 5 configuration) from a single PC, and without the need for external processors. The Frame Width Adjustment function virtually eliminates misalignment and helps enhance the quality of the enlarged image on a multi-screen display.

* Used with PC and AV signal output on PN-A601.

Brightness Sensor

The brightness sensor function automatically adjusts backlight brightness to complement surrounding ambient light levels. In dark environments, backlight brightness automatically lowers, helping provide optimal viewing, along with energy savings.



In dark surroundings



In bright surroundings

PN-ZR01 Control Kit (sold separately)

The PN-ZR01 is composed of a remote control unit and a remote control sensor box. The sensor box can function as a supplementary brightness sensor.



Remote control unit

Remote control sensor box

Cross Flow Fan (option)

A rise in surface temperature on the LCD may hinder display performance. The optional PN-ZF01 cross flow fan spreads air across the monitor to help keep the monitor running cool and efficient.

24/7 Operation

Engineered for 24/7 certified commercial use, the PN-A601 is designed to provide the reliability and durability needed for most any professional application.

ENERGY STAR® Qualified

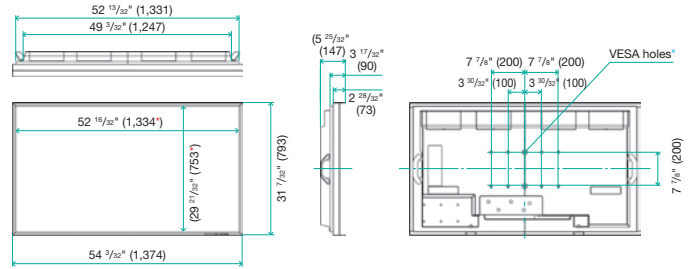
The PN-A601 conforms to ENERGY STAR qualifications, as well as the RoHS Directive restricting the use of hazardous substances.



Specifications

Model Name		PN-A601
Installation		Landscape / Portrait
LCD Panel		60-inch class (60" diag.) widescreen (152.5 cm diag.), UV-A LCD
	Max. Resolution	1,920 x 1,080 pixels
	Max. Display Colors (approx.)	1.060 million colors
	Pixel Pitch (H x V)	0.692 x 0.692 mm
	Max. Brightness*1	2,000 cd/m ²
	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)	52 10/32" x 29 14/32" (1,329.1 x 747.6 mm)
	Response Time	6 ms (gray to gray, avg.)
Computer Input		Video: Analog RGB (0.7 Vp-p) [75 Ω], Digital (conforms to DVI 1.0 standards)
	Synchronization	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 Color System		NTSC (3.58 MHz, 4.43 MHz)*2 / PAL / PAL60 / SECAM
Input Terminals*3		Standard: PC analog: 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*5, Component video*4*5, RS-232C: D-sub 9-pin x 1, Control Kit jack x 1 Via Optional PN-ZB01 Board: PC digital: DVI-D 24-pin (HDCP compatible) x 1, PC analog: BNC x 1*7*8*9, Video: BNC x 1*5, S-Video x 1, Component video: BNC (Y, Cb/Pb, Cr/Pr) x 1*6*8, 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-ZB01 Board: PC digital: DVI-D 24-pin x 1, External speaker: 10W + 10W (6 Ω)
Input/Output Terminals*3		Via Optional PN-ZB01 Board: LAN port (10Base-T/100Base-TX)
Mounting		VESA (6 points), 7 7/8" (200 mm) pitch, M6 screw or VESA (4 points), 7 7/8" (200 mm) pitch, M6 screw
Power Supply		100V – 240V AC, 50/60 Hz
Power Consumption		620W
Environmental Conditions		Operating Temperature: 0°C to 40°C Operating Humidity: 20% to 80% RH (no condensation)
Dimensions (W x D x H) (approx.)		54 3/32" x 5 25/32" x 31 7/32" (1,374 x 147 x 793 mm) (Display section only, not including protrusions)
Weight (not including PN-ZB01) (approx.)		99.2 lbs (45 kg)
Packing Dimensions (W x D x H) (approx.)		62 3/16" x 13 5/8" x 36 11/16" (1,580 x 346 x 932 mm)
Limited Warranty		3 years on-site, parts and labor
UPC		074000069190

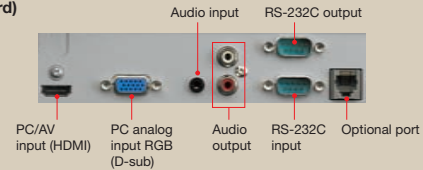
Dimensions



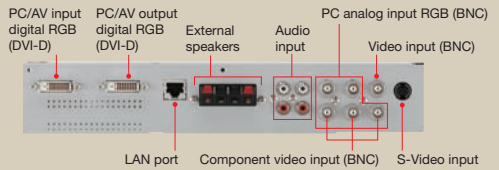
Units: inch (mm)
 * Screen dimensions
 * To use the VESA-standard mounting bracket, use M6 screws that are 8 to 10 mm plus the thickness of the bracket.

Input/Output Terminals

(standard)



(option) PN-ZB01 Interface Expansion Board



Other Options

- **PN-ZR01: Control Kit** (remote controller and remote control sensor box*)
 * Functions as an external brightness sensor.
- **PN-ZF01: Crossflow Fan**

*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-ZB01 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 analog, 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-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. *7 The analog and component BNC terminals are switchable. Use the menu to select. *8 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. *9 Does not support plug & play.

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