Superb Color: Accurate, Dynamic Video Walls for Inspiring Signage
Discover the Power of Expression with Sharp’s Massive Monitor for Compelling Video Walls

Just imagine the power of a video wall built out of the 70” Class (69.5” diagonal) PN-V701 display. Huge, high-impact video walls can be created using fewer monitors with less bezel interruption across the entire on-screen image. And with upgraded color calibration technology—SHARP Advanced UCCT—the PN-V701 display gives high-quality video wall solutions that are sure to attract a crowd.

**Video Walls that Draw a Crowd**

The PN-V701 display was developed specifically for use in multi-monitor installations in either portrait or landscape orientation. Thanks to its combined bezel width of just 4.4 mm*, large images on a video wall appear natural and almost seamless. The grand scale of the 70” Class (69.5” diagonal) monitor allows you to build video walls with fewer monitors and fewer bezels, which serves to minimize the non-displayed area.

Whether in an airport, railway station, shopping mall, or other public spaces, the PN-V701 display expands the creative possibilities of visual communication.

* 1.5 mm (right/bottom), 2.9 mm (left/top)

**Excellent Image Quality**

The PN-V701 display incorporates Sharp’s UV²A technology to ensure highly efficient use of light from the backlight and prevent light leakage, resulting in truly bright whites and extremely deep blacks. The LCD panel also boasts 1,920 (H) × 1,080 (V)-pixel full HD resolution, making everything from fine text to intricate graphics stunningly crisp and clear.

A brightness of 700 cd/m² supports the PN-V701 display in its digital signage duties. Four PN-V701 display monitors set up in a 2 × 2 configuration, for example, can beautifully render every single pixel of 4K Ultra HD 3,840 (H) × 2,160 (V)-pixel content in a form equivalent to a huge 140” Class (139” diagonal) monitor. What’s more, the PN-V701 display employs SHARP Advanced UCCT (Uniform Color Calibration Technology) to achieve brilliant uniformity of color and brightness across the entire video wall.

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

**SHARP Advanced UCCT (Uniform Color Calibration Technology)**

To achieve high-quality video walls with superb uniformity of color and brightness, Sharp developed SHARP Advanced UCCT. This unique out-of-the-box technology performs two functions: it corrects the color and brightness within a monitor, and it reduces color inconsistency among monitors by sophisticated color management of each monitor. Thanks to this combination, the PN-V701 display can create video walls of extremely high quality and dynamism.

### Hybrid correction of color and brightness

The display characteristics of each small area in the LCD are measured in terms of RGB input signals. Uniformity of color and brightness is then calibrated and corrected for each RGB signal element as shown in the graphs below. Sharp has further improved the accuracy of this technology for the PN-V701 display.

### Color management by 3D LUTs

The color management of each monitor utilizing 3D lookup tables (LUTs) achieves a high level of color reproduction toward the predetermined target range. It greatly improves the consistency of color quality between monitors creating a video wall.

Note: Brightness level may decrease when activating SHARP Advanced UCCT.
Inverse Scan Function

When high-speed video is played on a video wall composed of multiple monitors, slight image misalignments between vertically placed monitors can occur. As a countermeasure, the Inverse Scan function comes standard with the PN-V701 display. This corrects image misalignments by alternating the scanning direction between vertically adjacent monitors, creating smooth and natural images on a large video wall.

Choice of Installation Mode

The PN-V701 display offers a choice of landscape or portrait installation, allowing customers to select the mode that best suits their display content and application.

Support for HDBaseT™ 2.0 (Option)

The PN-V701 display features an expansion slot to accommodate an optional HDBaseT Receiver Board (PN-ZB03H). Installing this board allows the PN-V701 display to receive HDMI™ video, audio signals, and control signals sent up to 100 meters via a single LAN cable*1. This brings convenient connectivity with HDMI devices such as PCs and BD players. Compatibility with the HDBaseT 2.0 standard allows you to remotely operate a PC from a USB device connected to the optional board*2. With HDBaseT™ 2.0 support, you can use fewer cables and reduce the time and cost of installation.

*1 Category 6 or higher shielded cable (available commercially).
*2 Requires an HDBaseT 2.0-compatible transmitter (available commercially). Not all USB devices are supported.

Control Kit (PN-ZR02)

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.

24/7 Operation

Built solid, the PN-V701 display is ideal for use in 24-hour stores and in other demanding professional applications that require around-the-clock operation, seven days a week.
Specifications

**Model Name**: PN-V701

**Installation**: Landscape / Portrait

**LCD Panel**
- 70" Class (69.5" diagonal) U/V A LCD
- Max. Resolution: 1,920 x 1,080 pixels
- Max. Display Colors (approx.): 1.06 billion colors
- Pixel Pitch (H x V): 0.802 x 0.802 mm
- Brightness*: 700 cd/m²
- Contrast Ratio*: 4,000 : 1
- Viewing Angle (H/V): 178°/178° (CR ≥10)
- Active Screen Area (W x H): 60 ¼" x 34 ¾"
- Response Time: 6 ms (grey to grey, avg.)
- Backlight: LED, full array

**Computer Input**
- Video: Analog RGB [0.7 Vp-p] [75 Ω], Digital [DVI 1.0 standard-compliant], DisplayPort™ 1.2, HDMI
- 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

**Input/Output Terminals**
- HDMI™ x 2, Mini D-sub 15-pin x 1*, DisplayPort x 1, 3.5 mm-diameter mini stereo jack x 1, RS-232C (D-sub 9-pin) x 1, Control kit terminal x 1, DVI-D 24-pin (HDCP compatible) x 1
- DisplayPort™ x 1, 3.5 mm-diameter mini stereo jack x 1, RS-232C (D-sub 9-pin) x 1
- LAN: 10Base-T/100Base-TX x 1
- Audio output
- PC/AV input
- PC output (DisplayPort)
- PC analog input RGB (D-sub)
- DVI-D input
- USB

**Input Terminals**
- RGB (D-sub)
- DVI-D input
- DisplayPort™
- Audio port
- Optional port
- Control kit

**Output Terminals**
- USB
- LAN port

**Environmental Conditions**
- Operating Temperature: 0°C to 40°C
- Operating Humidity: 20% to 80% RH (no condensation)

**Dimensions**
- Dimensions** (W x D x H): 60 1/2" x 34 1/4" x 5 1/4" (1,539.3 x 866 x 122 mm)
- Dimensions (Side): 60 1/2" x 34 1/4" x 5 1/4"
- Dimensions (Bottom): 60 1/2" x 34 1/4" x 5 1/4"

**Input/Output Terminals**

**Options**
- PN-ZB03H: HDBaseT Receiver Board
- PN-ZR02: Control Kit (remote controller and remote control sensor box)

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* * When uniformity is set to MODE 1. Brightness and contrast ratio depend 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. *1 Use a commercially available connection cable for PC and other video connections. *2 For both PC and AV components. *3 Analog PC, video, and component video are switchable (via the bottom interface); use the menu to select. Note that video and component video inputs require a conversion cable connected via the mini D-sub input terminal only. *4 For both PC and AV components. *5 Analog PC, video, and component video are switchable (via the bottom interface); use the menu to select. Note that video and component video inputs require a conversion cable connected via the mini D-sub input terminal only. *6 For video signals only. *7 Display only, not including protrusions.