

\Orchestrating a brighter world

**NEC**

55" LED-backlit, S-IPS, ultra-narrow bezel,  
LCD displays ideal for video wall applications

## NEC LCD Video Wall Displays

New  
STYLES  
ALL NEW  
LOOK



Brand new bezel design contributes to smallest possible gap between panels which allows for unhindered video wall viewing ideal for applications such as retail signage, control room monitoring, on-screen broadcast environments and rental installations.

### The Ideal Video Wall Display

Transform your video walls with the crystal clear imagery of the NEC 55" UN551S and UN551VS. Brand new S-IPS panel technology provides exceptional viewing angles and top of the line color depth to enhance image quality for all types of installations. On top of that, direct LED backlighting not only reduces power consumption and improves edge-to-edge brightness uniformity but also allows for localized dimming capabilities that will control the backlighting and ultimately improve contrast ratio based on the current content shown on the display. Mere millimeters separate content from display which ensures a smooth transition across a video wall. This display is ideal for digital signage, boardrooms, entrance lobbies and broadcast applications, and can be deployed in video wall applications up to 10 x 10 in size utilizing integrated TileMatrix™ technology\*. TileMatrix technology within these displays can also now support up to UHD (3840 x 2160) resolution through the internal daisy chain functionality and still show imagery across the entire video wall. This is 4x the resolution that previous generations of product would support.

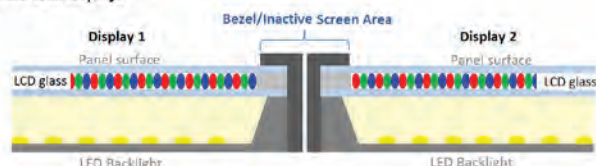
### Brand New Panel Design

Brand new S-IPS panel technology allows for 10-bit color depth and far less off-angle color shift compared to typical video wall displays. On top of that, the new UN551S and UN551VS products have a 0.9mm inactive area between display images and feature a border that is even on all sides of the display. When viewed in a video wall, this completely minimizes the inactive space between adjacent monitors and allows for virtually uninterrupted and homogeneous content viewing.

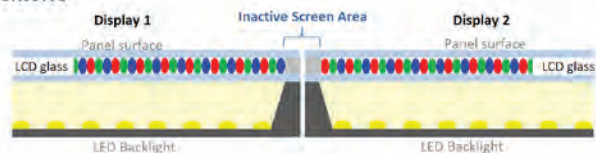


These panels have a frameless design so that when adjoined next to one another to create a large digital canvas, the transition between panels is completely flat. This allows for a more homogenous image across the entire wall.

Previous video wall displays



UN551S & UN551VS

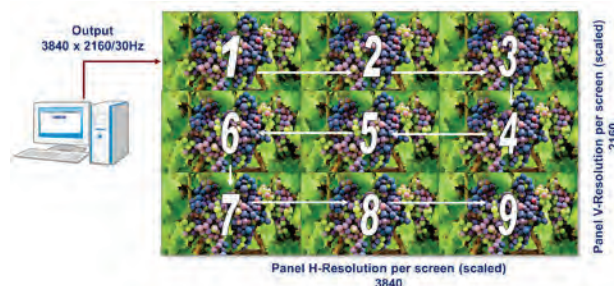


### Auto TileMatrix, Auto ID and Auto IP Address Technologies

Auto TileMatrix and ID features allow a user to simply set up the size of the video wall on the first display and automatically scale the content across the remaining displays. Auto IP Address simplifies control setup by setting the static IP address on the first display then initiating the feature so that the IP Addresses of consecutive displays following the LAN daisy chain.

### DisplayPort UHD Daisy Chain Functionality

These displays have the ability to input a UHD/30Hz signal via HDMI or DisplayPort then also output the same signal across the entire wall. This allows TileMatrix to support up to 4x the resolution as previous generation products.



### Advanced Heat Management

Monitoring and managing the temperature of each display is crucial to secure reliability and longevity. An industrial-strength, premium-grade panel with additional thermal protection, internal temperature sensors with self-diagnostics, and fan-based technology allows for 24/7 operation, and protects your display investment.

With advanced heat management

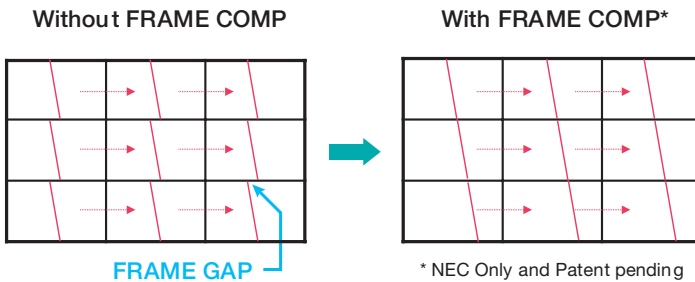


Without advanced heat management

Without heat management, the displays placed higher on a wall will sustain a hotter temperature than the screens below. This damaging heat will lower the picture quality and life expectancy of the product. However, NEC's advanced heat management ensures heat dissipation for a more uniform overall wall temperature. Integrated cooling fans automatically turn on and stay on when high internal temperatures are detected. These will stay on until the heat is properly dissipated and the display remains under proper temperature thresholds.

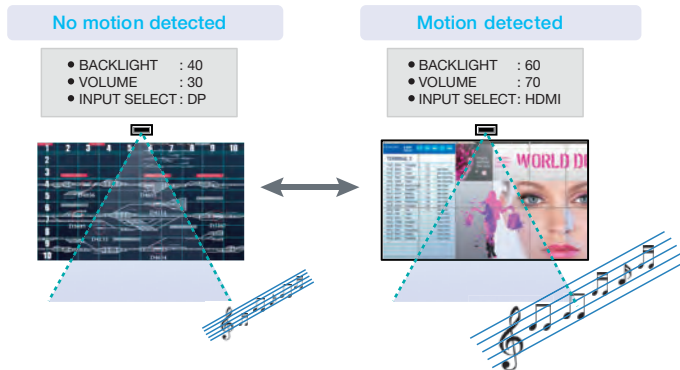
## Frame Comp Functionality

By allowing per row frame adjustment across the video wall, this feature allows for better content synchronization when content is moving across the video wall.



## Human Sensor and Ambient Light Sensor

This new optional human (motion) sensor accessory (KT-RC2) helps to deliver creative digital signage to end users by allowing for dynamic control of brightness, audio and source inputs while saving operating costs. Auto dimming adjusts the backlight of the LCD automatically depending on the amount of ambient light.



## Proof of Play

This function provides accurate proof that displays are working as established when checking from an external location. Information regarding video source, time on, audio source and more can be pulled through the display when coupled with NaViSet Administrator 2.

## NaViSet Administrator 2

This software is an all-in-one remote support solution that runs from a central location and provides monitoring, asset management and control functionality of the majority of NEC display devices and Windows computers. It is ideal for multi-device installations over larger infrastructures.



## Dedicated Color Calibration Software

As the brightness and color temperature of the LCD change with time, colors may not match across multiple screens. The NEC Display Wall Calibrator software ensures color uniformity and fidelity across multiple screens, creating a perfectly matched image in tiled environments.

## NEC Display Wall Calibrator

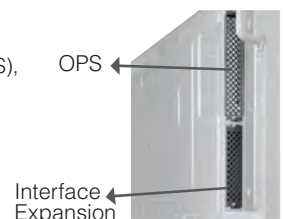
## Intelligent Wireless Data Function

The built-in near field communication (NFC) chip allows data to be read and written via a mobile phone or tablet PC. Users can significantly reduce installation costs as displays can be easily configured and serviced using the NEC NFC Android app. This is extremely useful for larger rollouts as it can be utilized even when the display is powered off.



## Expansion slots

The NEC UN displays support Intel's Open Pluggable Specification (OPS), and interface expansion slots to provide the flexibility customers need.





|                                       | UN551S   | UN551VS                                       |
|---------------------------------------|--|---|
| LCD MODULE                            |  |   |
| Panel Technology                      | S-IPS  |   |
| Viewable Image Size                   | 55"  |   |
| Native Resolution                     | 1920 x 1080  |   |
| Brightness (Typical/Max)              | 500 cd/m <sup>2</sup> / 700 cd/m <sup>2</sup>  | 350 cd/m <sup>2</sup> / 500 cd/m <sup>2</sup> |
| Contrast Ratio (Typical / Dynamic)    | 1200:1 / 500,000:1   |   |
| Viewing Angle                         | 178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10  |   |
| Aspect Ratio                          | 16:9   |   |
| Active Area                           | 47.6 x 26.8 in. / 1209.9 x 680.4mm   |   |
| Displayable Colors                    | Landscape/Portrait   |   |
| Orientation                           | More than 1.07 billion (10-bit)  |   |
| CONNECTIVITY                          |  |   |
| PC/Mac Signal Compatibility           | Yes  |   |
| Input Terminals                       |  |   |
| Digital                               | DisplayPort, HDMI, DVI-D   |   |
| Analog                                | VGA 15-pin D-sub   |   |
| Audio                                 | Audio Mini-Jack, DisplayPort Audio, HDMI Audio   |   |
| External Control                      | RS-232C, LAN, DDC/CI   |   |
| Output Terminals                      |  |   |
| Digital                               | DisplayPort (DisplayPort, HDMI, DVI-D or Option Signals out of this port)  |   |
| Analog                                | n/a  |   |
| Audio                                 | Audio Mini-Jack, External Speaker Jack (2), HDMI Audio (through DisplayPort Out), DisplayPort Audio  |   |
| External Control                      | LAN  |   |
| POWER CONSUMPTION                     |  |   |
| On (Typical)                          | 180W   | 140W  |
| Power Management                      | <0.5W  |   |
| Current Rating                        | 4.4A @ 100 - 120V, 1.6A @ 220 - 240V   | 3.4A @ 100 - 120V, 1.2A @ 220 - 240V          |
| PHYSICAL SPECIFICATIONS               |  |   |
| Inactive Area Per Display             | 0.9mm Even Inactive Border   |   |
| Net Dimensions (without stand; WxHxD) | 47.7 x 26.9 x 3.9 in. / 1211.4 x 682.2 x 98.8mm  |   |
| Net Weight (without stand)            | 26.0kg / 57.3 lbs.   |   |
| VESA Hole Configuration               | 400 x 400mm (M6 x 4)   |   |
| ENVIRONMENTAL CONDITIONS              |  |   |
| Operating Temperature                 | 41-104°F / 5-40°C  |   |
| Operating Humidity                    | 20 - 80%   |   |
| Operating Altitude                    | 13,780 ft. / 4200m   |   |
| LIMITED WARRANTY                      | 3 years parts and labor, including backlight*  |   |
| ADDITIONAL FEATURES                   | Anti-Glare S-IPS Panel, Localized Dimming, Direct LED Backlighting, Integrated Temperature Sensors and Dual Thermodynamic Cooling Fans, Ethernet Control and Communication, LAN Daisy Chain, RS-232 Control and Communication, Landscape/Portrait Capable, Full 24/7 Scheduler Function, Optional Human Sensor, NFC Capable with Intelligent Wireless Data App, Interface Expansion Slot, DisplayPort 1.2 Daisy Chain for UHD Loophrough Capabilities, Metal Rear Chassis, Carrying Handles, Programmable Gamma Correction, OPS Expansion Slot |   |
| SHIPS WITH                            | Power Cable, 3m DisplayPort Cable, 3m LAN Cable, Setup Manual, CD-ROM, Thumbscrew for Optional Stand   |   |
| Optional Accessories                  | Stand (ST-5220), Front-Firing 15W x 2 Speakers (SP-TF1), Side-Firing 15W x 2 Speakers (SP-RM1), Overframe Bezel Kit (KT-55UN-OF4), IR Remote Control/Human Sensor Kit (KT-RC2), All OPS Option Cards, All Interface Expansion Boards (SB3-AB1, SB3-AB2, SB3-DB1), Display Wall Calibrator Kit (KT-LFD-CC),   |   |

Input Panel

1. Vacation Switch

2. External Speaker Terminal

3. Audio Mini Jack Out

4. USB Service Port

5. LAN Ports

6. Audio Mini Jack In

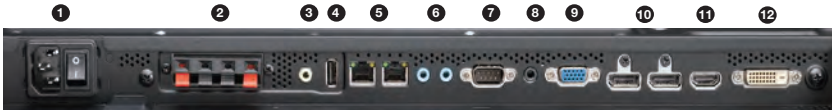
7. RS-232C In

8. Remote In

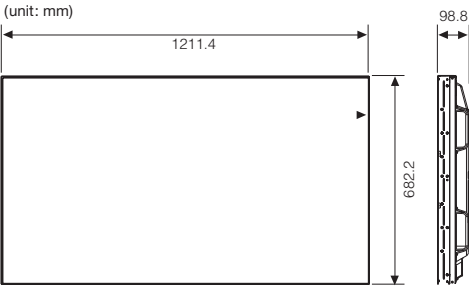
9. VGA D-Sub In

10. DisplayPort In/Out

11. HDMI In



Dimensions



Options

OPS PC's

OPS-PCAEQ-PS/PH  
OPS-PCIB-PS



SDI

HD-SDI SB-01HC  
3G-SDI SB-04HC



HDBaseT SB-07BC



Interface Extension Board

Digital Video SB3-DB1  
Analog Video SB3-AB1  
Analog Video SB3-AB2  
(5 × BNC)



Sensor Kit

Human (Motion) / Ambient Light / IR Remote  
KT-RC2  
Ambient Light / IR Remote  
KT-RC



Stand

ST-5220



Speaker

SP-RM1

SP-TF1



Over Frame Kit

KT-55UN-OF4



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