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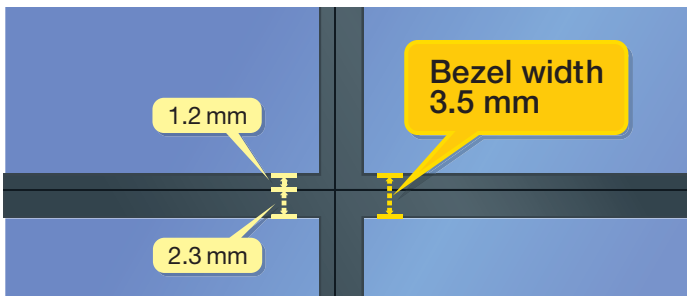
NEC LCD Video Wall Displays

24/7 runtimes and picture perfect image quality make these displays ideal video wall solutions for retail signage, control room applications, broadcast environments and rental markets.

The Ideal Video Wall Display

Transform your video walls with the crystal clear imagery of the NEC 55" X555UNS and X555UNV. 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 to 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.

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.

S-IPS Panel and an Ultra Narrow Bezel

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, mere millimeters separate content from display to display, which ensures a smooth transition across a video wall. The X555UNS and X555UNV minimize that distance to a ground-breaking 3.5 mm.

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.
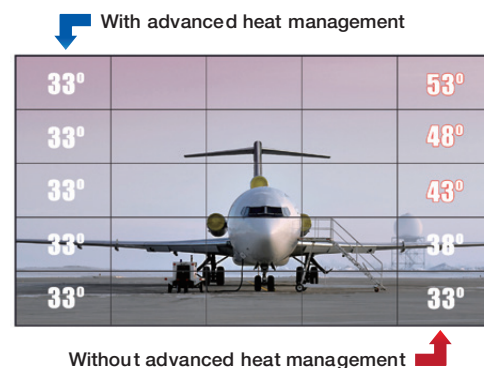
Without heat management, the displays placed higher on a wall will sustain a hotter temperature than the screens below. This damaging heat will lower the picture quality and life expectancy of the product. However, NEC's advanced heat management ensures heat dissipation for a more uniform overall wall 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.
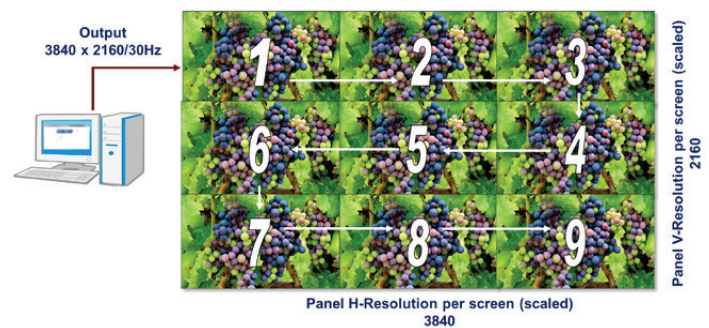
Auto TileMatrix, Auto ID and Auto IP Address TechnologiesTechnology

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 initiatiing the feature so that the IP Addresses of consecutive displays following the LAN daisy chain.
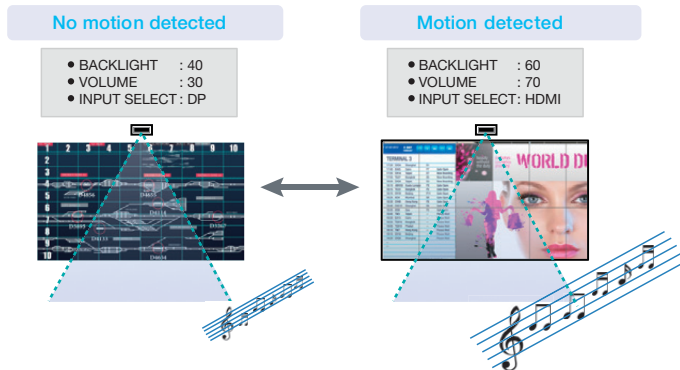
Frame Comp Functionality

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.

Without FRAME COMP   **With FRAME COMP***

FRAME GAP

* NEC Only and Patent pending
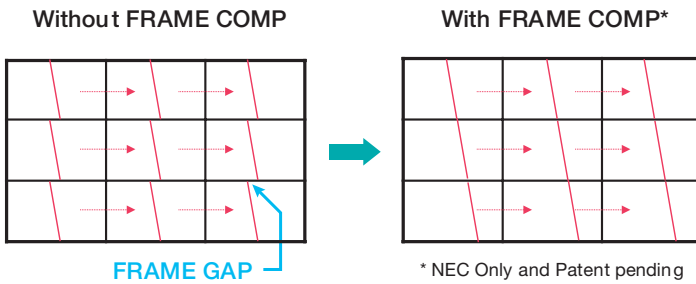
Human Sensor and Ambient Light Sensor

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.

No motion detected

- • BACKLIGHT : 40
- • VOLUME : 30
- • INPUT SELECT : DP

Motion detected

- • BACKLIGHT : 60
- • VOLUME : 70
- • INPUT SELECT : HDMI

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.

NaViSet
Administrator 2

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
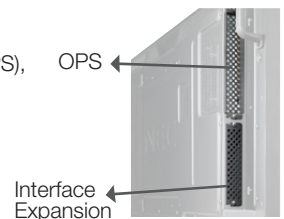**Display Wall Calibrator**

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.
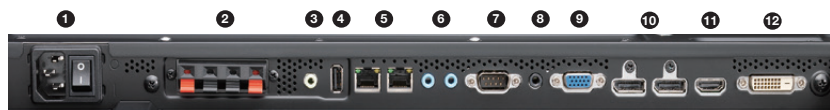
Expansion slots

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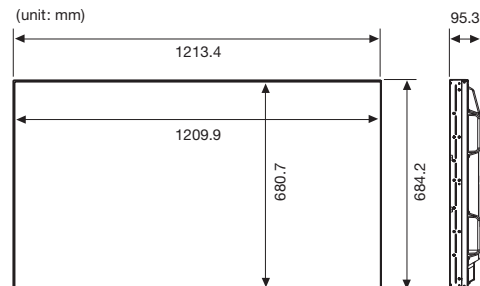
OPS

Interface Expansion

MODEL	X555UNS	X555UNV
LCD MODULE		
Panel Technology	S-IPS	
Viewable Image Size	55"	
Native Resolution	1920 x 1080	
Brightness (Typical/Max)	500 cd/m² / 700 cd/m²	400 cd/m² / 500 cd/m²
Contrast Ratio (Typical)	1200:1	
Viewing Angle	178° Vert., 178° Hor. (89U/89D/89L/89R) @ CR>10	
Aspect Ratio	16:9	
Active Screen Area	47.6 x 26.8 in. / 1209.9 x 680.4mm	
Orientation	Landscape/Portrait	
Displayable Colors	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	Audo Mini-Jack, External Speaker Jack (2), HDMI Audio (through DisplayPort Out), DisplayPort Audio	
External Control	LAN	
POWER CONSUMPTiON		
On (Typical)	205W	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		
Bezel Width (L/R, T/B)	2.3mm/1.2mm, 2.3mm/1.2mm	
Net Dimensions (without stand; WxHxD)	47.8 x 26.9 x 3.8 in. ; 1213.4 x 684.2 x 95.3mm	
Net Weight (without stand)	29.5kg / 65.0lbs	
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 Loopthrough 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-OF3), 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
12. DVI-D In

Dimensions

(unit: mm)

1213.4
1209.9
680.7
684.2
95.3

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-OF3

NEC Display Solutions of America

http://www.necdisplay.com

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