NEC

46" LED-backlit, SPVA, ultra-narrow bezel,
LCD displays ideal for video wall applications

NEC LCD Video Wall Displays

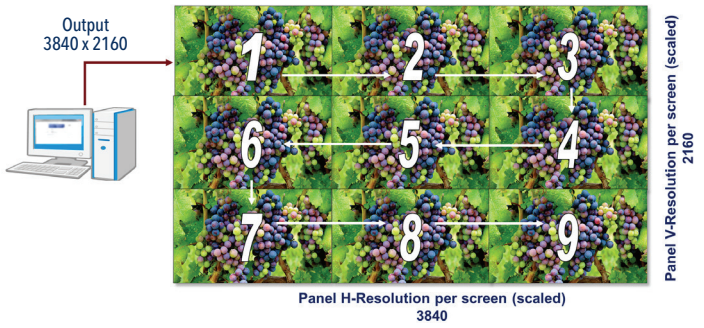
24/7 runtimes, advanced calibration techniques and picture perfect image quality make these displays ideal video wall solutions for retail signage, control room applications, broadcast environments and rental markets.

The Ideal Video Wall Display

Transform your video walls with the crystal clear imagery of the NEC 46" UN462VA and UN462A. On top of this, there have been many advancements in color control for each display. SPVApanel technology provides exceptional contrat ratio and image quality for all types of installations. Also, direct LED backlighting not only reduces power consumption but also improves edge-to-edge brightness uniformity. Mere millimeters separate content from display to display which ensures a smooth transition across a video wall. This display is ideal for digital signage, command and control, 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 through both the DisplayPort and HDMI out connections to allow for ultra high definition resolution across the entire video wall. New groundbreaking SpectraView Engine technology integrated into each display allows for the most advanced color control in the market allowing for the ultimate uniformity from display to neighboring display for consistence across the entire wall.

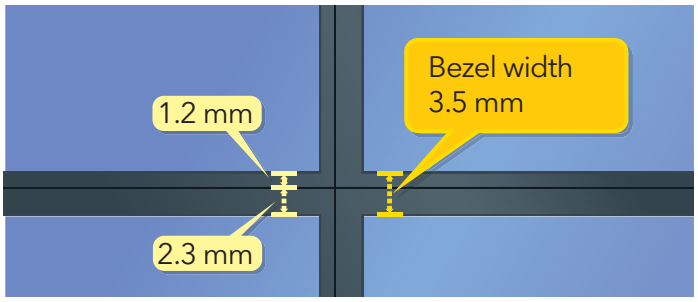
DisplayPort and HDMI UHD Daisy Chain Functionality

These displays have the ability to input a 4K UHD signal via and then also output the same signal across the entire wall via both an HDMI and DisplayPort out connection. This allows TileMatrix to support up to 4x the native resolution of each individual display.



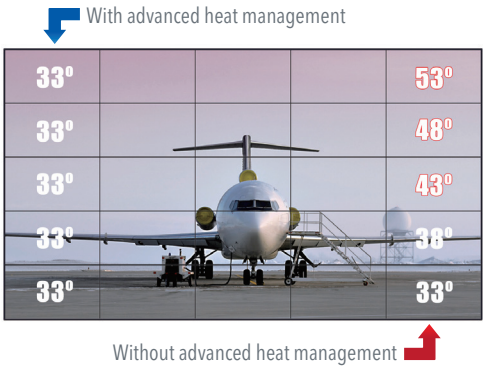
SPVA Panel and an Ultra Narrow Bezel

Brand new SPVA panel technology allows for UN462VA and UN462A minimize the bezel to bezel distance to a mere 3.5mm while maintaining high native contrast ratio and superb image quality compared to typical video wall displays. On top of that, each display is equipped with TileComp technology which allows the content that would be behind these bezels to be compensated for, allowing for truer and more realistic imagery.



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.



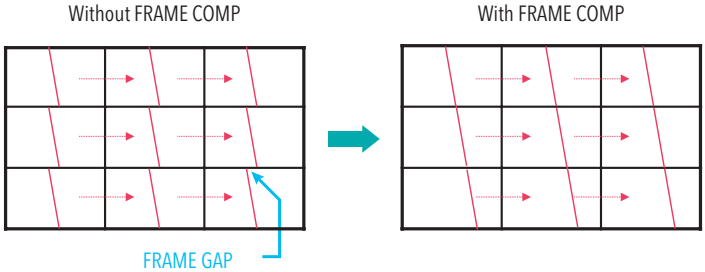
Without heat management, the displays placed higher on a wall will sustain a hotter temperature than the screens below. This damaging heat will lower the picture quality and life expectancy of the product. However, NEC's advanced heat management ensures heat dissipation for a more uniform overall wall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



Human Sensor and Ambient Light Sensor

This new optional human (motion) sensor accessory (KT-RC3) 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. This sensor also acts as a IR sensor that can be utilized to control the entire video wall either by individually controlling each monitor through the LAN daisy chain or by controlling each display simultaneously.

Anti-Glare Panel

All of the new video wall displays come equipped with a high haze panel that scatters ambient lighting rather than reflecting it like most other displays. This allows for content to always be viewable and onlookers to have perfect screen readability in any situation. This is an ideal feature in the case of high ambient light situations such as through the windows of an airport or if there are spot or track lighting directly above the video walls in a retail application.

With Anti-Glare

Without Anti-Glare

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

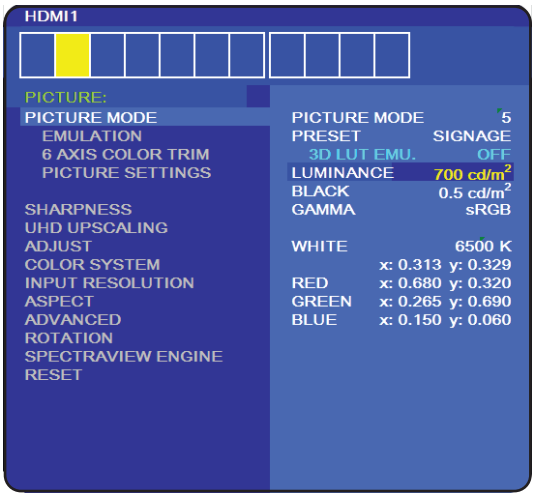
Dedicated Color Calibration Software

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. On top of this, the Display Wall Calibrator function works 2x faster than with previous generations of these displays. There is also a new feature to update the uniformity across a display via recalibration if necessary and to dynamically adjust the corners for slight color differences.

NEC Display Wall Calibrator

Spectraview Engine

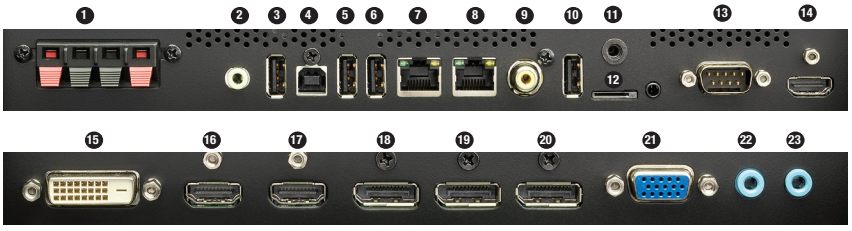
Utilizing NEC proprietary SpectraView Engine technology, each display is calibrated at a factory level on a grid pattern for white point, gamma and color. Each display can also support a 'Self Calibration' allowing one to plug a MDSVSENSOR3 directly into the display and update the factory calibration for white point, RGB and luminance to match that of the color sensor. This allows the OSD settings to match that of the color sensor being used. After a self calibration there is also a 'White Copy' function that can be utilized when adding a new display into an existing video wall. This allows for one to simply copy the white pattern from an adjacent display into a new display with ease.



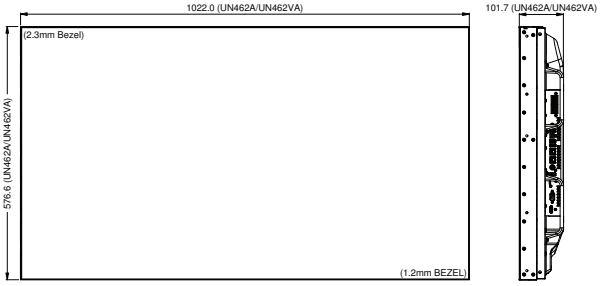
MODEL			UN462VA	UN462A
LCD MODULE		Panel Technology	SPVA	
		Viewable Image Size	46"	
		Native Resolution	1920 x 1080	
		Brightness (Typical/ Maximum)	350 cd/m² / 500 cd/m²	500 cd/m² / 700 cd/m²
		Contrast Ratio (Typical)	3500:1	
		Viewing Angle	178/178°	
		Aspect Ratio	16:9	
		Displayable Colors	Over 16.7 Million	
		Orientation	Landscape/Portrait	
		Panel Haze (%)	25	
CONNECTIVITY	Input Terminals	Digital	HDMI x2 (1.4/2.0), DisplayPort x2 (1.1/1.2), DVI-D	
		Analog	VGA 15-pin D-sub, RCA Composite	
		Audio	Audio Mini Jack x2, DisplayPort Audio, HDMI Audio	
		External Control	RS-232C, LAN (100Mb), 3.5mm Mini-Jack (IR Remote)	
		USB	microSD (Media Player), USB 2.0 (Media Player, USB (Service)), USB Type-B (Upstream), USB x2 (Both for Compute Module, 1 x 5V/2A Powered)	
	Output Terminals	Digital	DisplayPort (Outputs DisplayPort1 and OPTION (DP)), HDMI (Outputs HDMI1, DVI and OPTION (TMDS))	
		Audio	3.5mm Mini-Jack, External Speaker Jack x2	
		External Control	LAN (100Mb)	
POWER CONSUMPTION		Power Consumption (Typical/Max Brightness/ Absolute Max)	90W/140W/290W	125W/175W/350W
		Network Standby	2W	
		Standby	0.5W	
		Current Rating	3.4A @ 100V, 1.4A @ 240V	4.0A @ 100V, 1.6A @ 240V
PHYSICAL SPECIFICATIONS		Bezel Width (L/R, T/B)	2.3mm/1.2mm, 2.3mm/1.2mm	
		Net Dimensions (Without stand; W x H x D)	40.2 x 22.7 x 4.0 in. / 1022.0 x 576.6 x 101.7mm	
		Net Weight (Without Stand)	45.0 lbs. / 20.4 kg	
		VESA Hole Configuration	300 x 300 (4-hole, M6)	
ENVIRONMENTAL CONDITIONS		Operating Temperature	0 - 50°C / 32 - 122°F	
		Operating Humidity	0 - 90%	
		Operating Altitude	9843 ft. / 3000m	
LIMITED WARRANTY			3 years Advanced Replacement	
ADDITIONAL FEATURES			3D LUT, AMX Support, Auto ID/Auto TileMatrix, Automated Email Alert Function, CEC Support through HDMI, Crestron Roomview Support, DICOM Simulation, Display Browser Control, Display Wall Calibrator Compatible, FrameComp Technology, High Haze Panel, Intelligent Wireless Data (NFC), Key Guide, NaViSet Administrator 2 Compatible, OSD Rotation for Portrait Orientation, OPS Compatible, PJ Link Support, Point Zoom Function, Power USB Port (5V/2A), Programmable LUT, Raspberry Pi Compute Module Compatible, Real Time Clock, SpectraView Engine Support for Advanced Calibration Techniques, SNMP Support, 24-Hour Scheduler Function, UHD Support through HDMI/DisplayPort	
SHIPS WITH			3.0m AC Power Cable, 2.0m HDMI Cable, 2.0m DisplayPort Cable, User Manual	
OPTIONAL ACCESSORIES			Overframe Bezel Kit (KT-46UN-OF5), Display Wall Calibrator Kit (KT-LFD-CC2), IR/Ambient Light/Human Sensor and Remote Accessory (KT-RC3), OPS PC's (OPS-APIS-PS, OPS-PCAEQ-PS2, OPS-PCAEQ-PS), Internal HD-SDI Input Card (SB-01HC), Internal 3G/HD/SD-SDI Input Card (SB-04HC), Thin Side/Rear Mounted Speaker (SP-TF1), Optional Tabletop Stand (ST-322)	

Input Panel

1. External Speaker Terminal
2. Audio Out
3. USB1
4. USB2
5. USB CM1 (2A)
6. USB CM2
7. LAN1
8. LAN2
9. Video In
10. USB MP
11. Remote In
12. microSD
13. RS-2323C
14. HDMI1 (Daisy Chain In)
15. DVI-D
16. HDMI Out (Daisy Chain Out)
17. HDMI2 (CEC)
18. DisplayPort2
19. DisplayPort1 (Daisy Chain In)
20. DisplayPort Out (Daisy Chain Out)
21. VGA (RGB, YPbPr)
22. Audio In1
23. Audio In2



Dimensions



Options

OPS PC's

OPS-APIS-PS
OPS-PCAEQ-PS2
OPS-TCIS-PS

SDI

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

HDBaseT

SB-07BC

Sensor Kit

KT-RC3

Human (Motion) /
Ambient Light / IR Remote

Stand

ST-322

Display Wall Calibrator Kit

KT-LFD-CC2

Over Frame Kit

KT-46UN-OF5 for UN462A/UN462VA

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Sharp NEC Display Solutions of America
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