

Large-Screen LCD

Orchestrating a brighter world

NEC

Ultra-narrow, professional-grade LCD displays

MultiSync[®] UN552S / UN552VS / UN552 / UN552V / UN552A / UX552S
UX552 / UN492S / UN492VS / UN462A / UN462VA



5

Sports and
Adventure

- ↑ 6 Electrical
- ↓ 4 Bedding



Accurate colour reproduction and a detailed colour adjustment function enable a beautiful multiscreen display with little variation in colours.

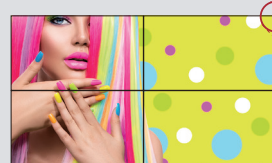
The use of an ultra-narrow bezel* and accurate colour reproduction enable a beautiful and natural large-screen display

The ultra-narrow bezel that makes the boundary line of the screen less conspicuous

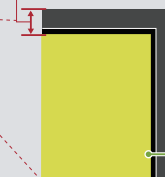
The non-display area (top, bottom, left, and right) of the UN552S/UN552VS is only 0.44 mm in width. The ultra-narrow bezel makes the boundary line of the screen less conspicuous even in a multiscreen configuration and enables a natural display similar to a single image.

* The UN552S, UN552VS, UN492S and UN492VS adopt bezel frameless design.
For a multiscreen configuration, we recommend gaps of 1 mm or more between adjacent displays.

Non-display area of UN552S/UN552VS



Non-display area: **0.44 mm**

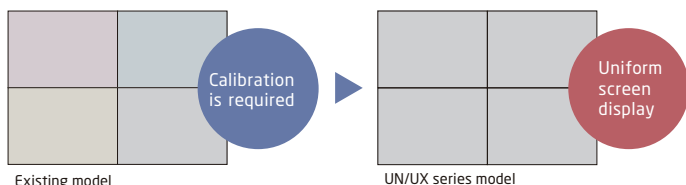


Liquid crystal panel

Enhanced calibration before shipping reduces installation time

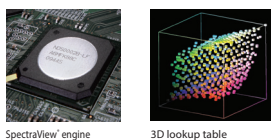
Colour calibration that covers brightness and colour irregularities on the screen at each step of manufacturing means uniform colour reproduction when screens are installed together. Easily noticeable colour variations in areas where screens meet has been reduced when compared with existing products. Furthermore, even in the case of colour calibration settings based on your colour sensors, calibration can be finished in an even shorter time.

Colour variations within a multiscreen setup (during installation)



Equipped with the SpectraView® Engine, NEC's unique colour correction function

When there is a change to a different colour setting, the image colour can be configured without colour variations by an on-screen display operation via the remote control. This is intended to reduce the colour matching time compared to calibration using a colour sensor. Furthermore, the display is equipped with various colour conversion functions, such as emulation of representative colour spaces*.



* Adobe® RGB, sRGB, ITU-R BT.709, etc. The colour spaces may not be fully covered.

Brilliant images are reproduced naturally through HDR signal input support

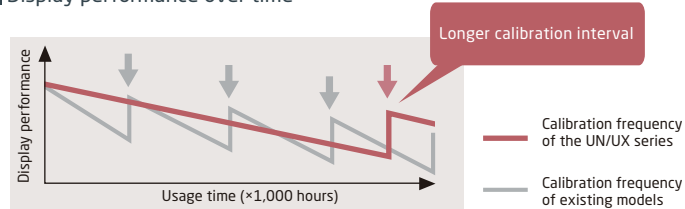
The built-in HDMI terminals support the display of HDR signals (Hybrid Log method and PQ method)*. Reproduction is natural even with images with large light and darkness differences. Furthermore, HDR gamma and colour gamut can be configured manually for incompatible terminals.

* HDMI terminal only. DisplayPort terminals and other terminals are not supported.

Reduce colour variation between screens due to long-term use

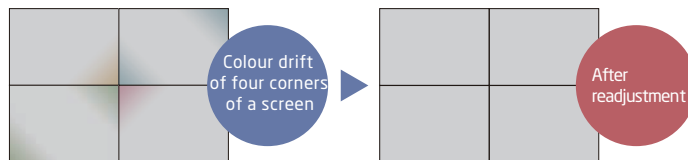
Screen colour changes that advance with temperature changes and long-term use are corrected automatically by a built-in sensor and the SpectraView Engine colour correction function. They maintain stable performance and reduce the burden of complicated calibration work. The UX series models are equipped with a backlight sensor for even more advanced correction.

Display performance over time



The corner colour correction function* enhances colour matching

Based on the screen state after irregularity correction was performed before shipping, the areas around the four corners of the screen where colour drift can be very conspicuous can be colour adjusted independently. When further fine adjustments are required, each point on the screen can be measured using an optional external colour sensor to correct the screen automatically as well.



* Requires the calibration software NEC Display Wall Calibrator. To obtain the software, consult with our sales representative.

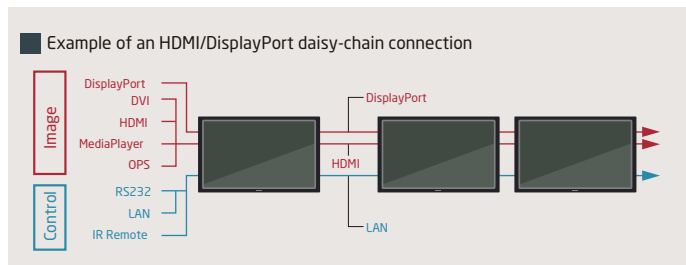
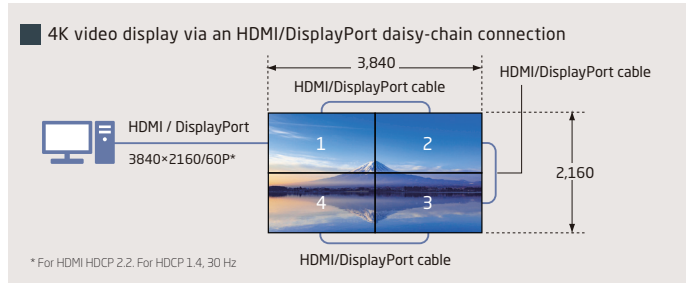
The standalone calibration function enables colour correction without use of a PC or dedicated application

The built-in standalone calibration function enables calibration by connecting an optional calibration sensor to the display without using a PC or dedicated application. The display also has a "white copy" function, which automatically configures to near image quality based on the white colour of adjacent screens, which can make colour matching fast even when you do not know the reference colours.

A full line-up of functions for impressive multiscreen setups

The built-in HDMI and DisplayPort input and output terminals support up to 4K video for faithful display of ultrahigh resolution video

The built-in HDMI and DisplayPort input and output terminals support 4K video QFHD (3840×2160) signals. High-resolution 4K image daisy chaining is supported, resulting in an impressively large screen that does not spoil the quality of 4K video, even in a multiscreen setup.

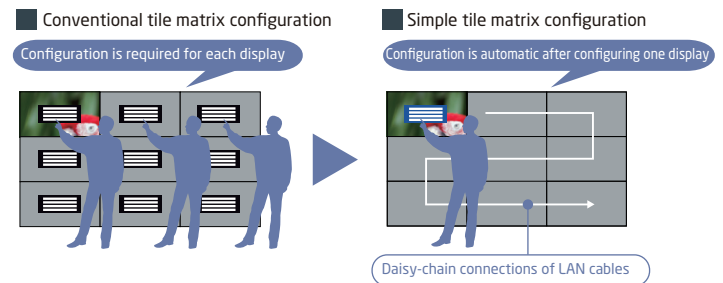


Advanced heat management

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. NEC's advanced heat management ensures uniform heat dissipation. Without heat management displays placed higher on a wall sustain more heat.

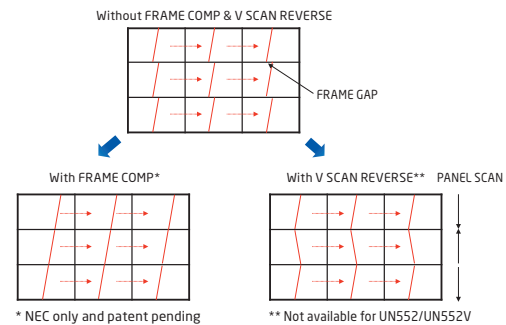
A simple tile matrix configuration that reduces troublesome setting operations for each display

If daisy-chain connections are used for the image and control cables between all of the displays in a multiscreen setup, it is possible to press the execution button on one display and configure the remaining displays, which can simplify configuration for multiscreen setups.



The frame compensation function and vertical scan reverse function prevent image shifts that are characteristic of multiscreen setups

These two functions improve the image shift (misalignment) between displays joined in columns, which occurs when playing back high-speed video on a multiscreen setup. Frame compensation adjusts the image display timing of each frame, and the vertical scan reverse function inverts the image scan orientation of displays joined in columns alternatively, resulting in a natural video display.



This highly durable display supports dual power supplies, so an external power source can be connected for the redundancy required for monitoring usage



UX552S/UX552

● Redundant power supply for increased reliability

Installing an optional external power supply unit provides a redundant power supply. Even when there is a problem with the power supply built into the display, the operation of the display can be recovered quickly.

● Automatic screen correction maintains a stable display

The built-in backlight sensor detects changes in brightness and colour of the backlight over time. Corrections occur automatically in one-second cycles, and accurate colours can be maintained for a long time.

UX series special functions

Other Useful Features and Functions

- Optional dual expansion slots
- Intelligent wireless data function (NFC)
- Human sensor/auto dimming with KT-RC3
- Scheduler w/real-time clock
- Intelligent power management system
- Power ON delay
- Screen saver function
- Aspect ratio control
- Tile cut function
- Control lock function
- Metal rear cabinet with VESA Standard (FDMLv1) Mounting Interface
- Handles
- 6-axis color adjustments and sRGB standard
- Advanced video settings (Noise reduction, adaptive contrast)
- Color temperature adjustment
- Programmable gamma setting (3 settings)
- DICOM SIM
- Plug and Play (DDC/CI, DDC2B)
- HDCP (High-bandwidth Digital Content Protections)
- NaViSet Administrator 2
- Ethernet and RS-232C control and communication
- Crestron RoomView
- AMX Discovery HTTP server
- PjLink
- Proof of play
- Self-diagnosis
- Status log function
- Firmware update by LAN

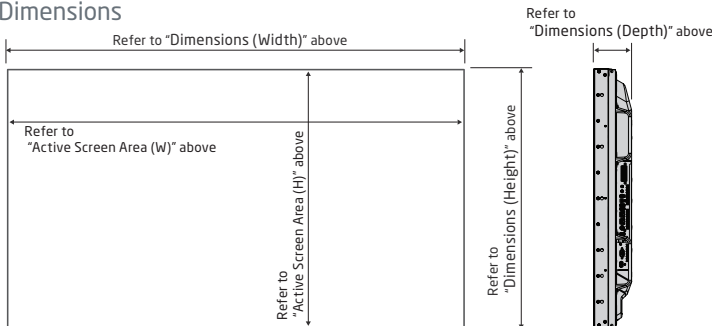


Specifications

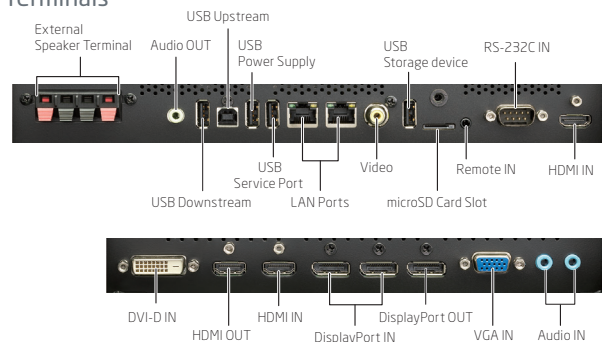
MODEL	UN552S	UN552VS	UN552	UN552V	UN552A	UX552S	UX552	UN492S	UN492VS	UN462A	UN462VA	
LCD MODULE												
Viewable size (diagonal)	55" / 1,388 mm						49" / 1,232 mm		46" / 1,168.1 mm			
Active screen area (W x H)	1,209.63 x 680.34 mm		1,209.60 x 680.40 mm				1,073.78 x 604.00 mm		1,018.08 x 572.67 mm			
Panel technology	IPS						SVA		IPS		SVA	
Native resolution	1920 x 1080											
Brightness (maximum @25°C)	700 cd/m ²	500 cd/m ²	700 cd/m ²	500 cd/m ²	700 cd/m ²	700 cd/m ²	700 cd/m ²	700 cd/m ²	500 cd/m ²	700 cd/m ²	500 cd/m ²	
Contrast ratio (typical)	1100:1		1200:1				4000:1		1100:1		3500:1	
Colour (depending on display card used)	Over 1073 million colours						Over 16 million colors		Over 1073 million colours		Over 16 million colours	
Viewing angle	178° (typical) @ CR>10											
Response time (typical)	8 ms (G to G)											
CONNECTIVITY												
Input terminals	DisplayPort	DisplayPort x 2 (daisy chain x 1)										
	HDMI	HDMI x 2 (daisy chain x 1, CEC x 1)										
	DVI-D	DVI-D x 1										
	VGA	Mini D-sub 15 pin x 1 (can be used with an RGB or YPbPr)										
	Video	RCA x 1 (composite video)										
Output terminals	Audio	Digital: DisplayPort x 2, HDMI x 2, Analog: 3.5 mm stereo mini jack x 2										
	DisplayPort	DisplayPort x 1 (output from DisplayPort1 or option)										
	HDMI	HDMI x 1 (output from HDMI1, DVI-D, or option)										
External control	External speaker	Analog: 3.5 mm stereo mini jack x 1 (output from AUDIO 1/2, DisplayPort and HDMI)										
	RS232C	15 W + 15 W (8 ohm)										
	Ethernet	D-Sub 9 pin x 1										
USB ports	Remote in	RJ-45 10BASE-T / 100BASE-TX x 2 (In/out)										
	Remote out	3.5 mm stereo mini jack x 1 (remote control, room light sensing and human sensing)										
	Upstream	Possible via Ethernet										
	Downstream	USB Type B x 1										
	Power supply	USB Type A x 1 (colour sensor)										
Redundant external power supply	Option slot	USB Type A 5V / max. 2A x 1										
	Expansion slots	USB Type A x 1										
Open pluggable specification (OPS standard) x 1, microSD/SDHC card x 1, interface extension x 1												
POWER												
Power requirement @ 100 - 240 V	4.7 A - 1.9 A	4.7 A - 1.9 A	4.2 A - 1.7 A	3.6 A - 1.4 A	4.9 A - 1.9 A	4.3 A - 1.7 A	4.9 A - 1.9 A	3.6 A - 1.5 A	3.2 A - 1.3 A	4.0 A - 1.6 A	3.4 A - 1.4 A	
Power consumption (Typical@factory setting)	165 W	165 W	150 W	110 W	195 W	130 W	195 W	120 W	95 W	125 W	90 W	
Power consumption - Network standby mode	2 W											
Power consumption - Standby mode	0.5 W											
PHYSICAL SPECIFICATIONS												
Non-display area	Top/bottom	0.44 mm	2.45/1.35 mm	2.5/1.4 mm	1.3/0.7 mm	2.5/1.4 mm	0.9 mm	2.5/1.4 mm				
	Left/right	0.44 mm	2.45/1.35 mm	2.5/1.4 mm	1.3/0.7 mm	2.5/1.4 mm	0.9 mm	2.5/1.4 mm				
	Width	1210.5 mm	1213.4 mm	1213.5 mm	1213.5 mm	1213.5 mm	1075.6 mm	1022.0 mm				
	Height(w/o stand)	681.2 mm	684.2 mm	684.3 mm	682.4 mm	684.3 mm	605.8 mm	576.6 mm				
Packaging dimensions	Depth(w/o handle)	98.6 mm	103.8 mm	100.3 mm	99.7 mm	100.3 mm	99.0 mm	101.3 mm				
	Width	1436 mm						1298 mm		1221 mm		
	Height	873 mm						795 mm		766 mm		
Net weight	Depth	317 mm						300 mm		300 mm		
	Weight	25.8 kg	28.1 kg	28.5 kg	29.6 kg	29.3 kg	24.3 kg	21.4 kg				
	Gross weight (with box)	37.0 kg	38 kg	38.3 kg	39.5 kg (TBD)	39.1 kg	32.2kg	29.1 kg				
VESA Hole configuration	400 x 400 mm (M6, 4 holes)						300 x 300 mm (M6, 4 holes)					
Supported orientation	Landscape, portrait											
ENVIRONMENTAL CONDITIONS												
Operating temperature	0 - 40° C*1											
Operating humidity	20 - 80 % (without condensation)											
Operating altitude	0 - 3000 m (Brightness may decrease with altitude)											
Operating hours	24/7											
ACCESSORIES												
Included	Contents sheet and setup manual, DisplayPort Cable, HDMI cable, LAN cable, Power cord, SD card cover, Screws with washers, Wall mount adapters, Wall mount adapter screws, Thumbscrews for optional stands*2, Clamp(s)*2, Spacers*2, screw for KT-RC3*2											
Options												
Slot board	OPS controller(PC)	N8000-8866 (Core i5 60GB-SSD), N8000-8865 (Core i5 320GB-HDD)										
Interface kit	HDBaseT	SB-07BC										
	SDI board	SB-04HC (3G-SDI)										
	Interface kit	DS1-IF10CE (Raspberry Pi interface kit)										
Remote and sensor kit	KT-RC3 (IR remote unit and human, ambient light sensor kit)*3											
Wall mount kit (Landscape/portrait)	WM-55UN-L/WM-55UN-P				WM-49UN-L				WM-46UN-L3/WM-46UN-P2			
Over frame bezel kit	-	KT-55UN-OF5	KT-55UN-OF2	-	KT-55UN-OF2	KT-49UN-OF	KT-46UN-OF5					
Speaker	SP-RM1, SP-TF1					ST-322						
Stand	ST-5220						ST-322					

*1 when you use Option Board accessories, please contact your supplier for detailed information. *2 depends on model. *3 with some limitations. Local options; please contact your supplier.

Dimensions



Terminals



NEC is a registered trademark of NEC Corporation.

MultiSync, NaViSet, TileMatrix, SpectraView, Intelligent wireless data and Frame Comp are trademarks or registered trademarks of NEC Display Solutions, Ltd. in Japan, the United States and other countries.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.

DisplayPort and DisplayPort Compliance Logo are trademarks owned by the Video Electronics Standards Association in the United States and other countries.

HDBaseT™ and the HDBaseT Alliance logo are trademarks of the HDBaseT Alliance.

CRESTRON and CRESTRON ROOMVIEW are trademarks or registered trademarks of Crestron Electronics, Inc.

AMX is a trademark or registered trademark of AMX LLC in the United States and other countries.

Trademark PLink is a trademark applied for trademark rights in Japan, the United States and other countries and areas.

VESA is a trademark of a nonprofit organization, Video Electronics Standard Association.

microSD is a trademark of SD-3C, LLC. Windows is a registered trademark of Microsoft Corporation.

Raspberry Pi is a trademark of the Raspberry Pi Foundation.

Adobe® is registered trademark of Adobe Systems Incorporated in the United States and other countries.

All other trademarks are the property of their respective owners. The images in this brochure are samples.

All specifications are subject to change without notice. April 2019

