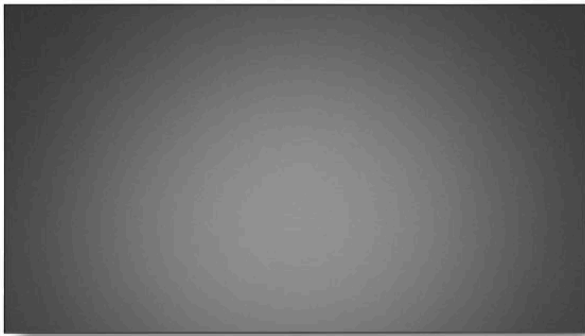


## MultiSync® UN552A LCD 55" Video Wall Display

# Datasheet



### The game changer for situational awareness

The ideal canvas for state of the art visualisation of mission-critical information, the NEC MultiSync® UN552A display is a game changer for LCD video walls. Designed for control rooms, the display supports situational awareness for traffic management in airports, railway and road networks, plus control applications in the energy, utility and environmental sector. For Big Data analytics, which is experiencing phenomenal growth in volume, speed and variance, this display is ideally placed to provide perfect visualisation.

The new display is optimised for static and moving content. With 700cd/m<sup>2</sup> brightness and an anti-reflection haze filter, these screens are easy to read, even in bright environments. Installation and operation is a breeze and with powerful calibration capabilities, initial setup requires minimal effort whilst long-term colour and brightness is maintained with remarkable homogeneity. The screen's design forms a flat digital canvas creating one continuous image across multiple screens.

## Benefits

**Easy to install** - it's simple to get your display up and running with its out-of-the-box calibrated picture pre-sets, managing colour settings and uniformity controlled by the SpectraView Engine — not to mention its simple, software-free calibration capabilities.

**Designed for reliable operation** - the metal chassis provides maximum display protection and, in combination with intelligent thermal management, the display guarantees reliable operation.

**Long-lasting continuous pictures** - align your display with powerful calibration capabilities. Use the white copy function, colour drift correction, uniformity control, self-calibration and validation to create a continuous surface across multiple screens that gives the appearance of one, seamless wall.

**Reliable image reproduction** - best suited for static image reproduction with reliable accuracy in mission critical applications. Our PVA panel technology makes sure you have the best viewing experience with excellent contrast and black level.

**Accelerate your video wall configuration** - set up your wall in no time with the display's powerful configuration capabilities, which include Auto ID/IP, Auto Tile Matrix, and Tile-/Frame Compensation. Enjoy flawless playback across your entire video wall.

**Enhanced imaging performance** - advanced settings of all relevant visual parameters allow full control of brightness, colour, gamma and uniformity via the SpectraView Engine for precise, natural images.

**Future Ready with Open Modular Intelligence Expansion** - upgrade the power of your display at any time by seamlessly

integrating one of NEC's options for OPS Slot-in PCs, Raspberry Pi compute modules or signal interfaces for content feed and computing.

**Safe and secure displays** - each display is EMC class-B certified and ideally suited for critical emission environments that require safer standards than other displays do.

## Product Information

|               |                            |
|---------------|----------------------------|
| Product Name  | MultiSync® UN552A          |
| Product Group | LCD 55" Video Wall Display |
| Order Code    | 60004525                   |

## Display

|                                 |   |
|---------------------------------|---|
| Panel Technology                | VA with Direct LED backlights                               |
| Active Screen Area (W x H) [mm] | 1,209.6 x 680.4   |
| Screen Size [inch/cm]           | 55 / 138.8  |
| Aspect Ratio                    | 16:9  |
| Pixel Pitch [mm]                | 0.630   |
| Brightness [cd/m <sup>2</sup> ] | 700   |
| Contrast Ratio (typ.)           | 4000:1  |
| Viewing Angle [°]               | 178 horizontal / 178 vertical (typ. at contrast ratio 10:1) |
| Response Time (typ.) [ms]       | 8   |
| Panel Refresh Rate [Hz]         | 60  |
| Haze Level [%]                  | Pro (25)  |
| Supported Orientation           | Landscape; Portrait   |

## Synchronisation Rate

|                            |          |
|----------------------------|----------|
| Horizontal Frequency [kHz] | 26 - 134 |
| Vertical Frequency [Hz]    | 23 - 86  |

## Resolution

|                                   |   |
|-----------------------------------|---|
| Native Resolution                 | 1920 x 1080   |
| Supported on DisplayPort and HDMI | 3840 x 2160; 1360 x 768; 1080i; 800 x 600;<br>1920 x 1080; 1280 x 1024; 1080p; 720p (50/60 Hz);<br>1600 x 1200; 1280 x 768; 1024 x 768; 640 x 480 |

## Connectivity

|                       |  |
|-----------------------|--|
| Input Video Analogue  | 1 x VGA; Composite (RCA)   |
| Input Video Digital   | 1 x DVI-D (with HDCP); 1 x OPS Slot; 2 x DisplayPort (with HDCP); 2 x HDMI (with HDCP)   |
| Input Audio Analogue  | 2 x 3,5 mm jack  |
| Input Audio Digital   | 2 x DisplayPort; 2 x HDMI  |
| Input Control         | 1 x Remote Control (3.5 mm jack); 1 x RS232; 2 x LAN 100Mbit   |
| Input Data            | 1 x microSD (MediaPlayer); 1 x USB 1.0 (Downstream); 1 x USB 1.0 (Media Player); 1 x USB 2.0 (Upstream); 2 x USB 1.0 (Compute Module, 1 x 5V/2A powered) |
| Output Video Digital  | 1 x DisplayPort (loop through: DisplayPort, OPS slot-in PC); 1 x HDMI (loop through: HDMI, OPS slot-in PC, MediaPlayer)                                  |
| Output Audio Analogue | 3,5mm jack   |
| Output Control        | LAN 100Mbit  |

## Calibration

|                     |  |
|---------------------|--|
| Factory Calibration | Gamma; Intensity; RGB; Uniformity; White Point |
|---------------------|--|

|                                  |   |
|----------------------------------|---|
| Sensor Calibration (through USB) | PC-less Calibration with USB Sensor MDSVSensor3; White Copy (post self-calibration)                             |
| Calibration with Software        | Corner Uniformity; Gamma; Intensity; RGB; Update Factory Calibration; Update Uniformity Correction; White Point |
| Calibration Software             | NEC Display Wall Calibrator   |

## Open Modular Intelligence

|  |  |
|--|--|
| OPS Slot                                     | Slot Technology: Open pluggable specification (NEC / Intel OPS standard) |
| OPS Max. Current / Power Consumption [A / W] | 3.6 / 58   |
| Compute Module Slot                          | Slot Technology: Compute Module Slot (NEC proprietary standard)          |

## Sensors

|                    |  |
|--------------------|--|
| Human Sensor       | Optional, external, 4-5m range, triggered actions programmable |
| Temperature Sensor | Integrated, 3 sensors, triggered actions programmable          |
| NFC Sensor         | Integrated, 2cm range, free NEC Android App required           |

## Electrical

|                                |                                |
|--------------------------------|--------------------------------|
| Power Consumption Eco/max. [W] | 195 shipping; 440 (max.)       |
| Power Savings Mode [W]         | < 0.5; < 2 (Networked Standby) |

## Environmental Conditions

|                            |           |
|----------------------------|-----------|
| Operating Temperature [°C] | +0 to +40 |
| Operating Humidity [%]     | 20 to 80  |
| Storage Humidity [%]       | 10 to 90  |
| Storage Temperature [°C]   | -20 to 60 |

## Mechanical

|                             |  |
|-----------------------------|--|
| Dimensions (W x H x D) [mm] | Without stand: 1,213.5 x 684.3 x 100.3 |
| Weight [kg]                 | Without stand: 28.5                    |
| Bezel Width [mm]            | 1.2 bottom/right; 2.3 top/left; 3.5    |
| VESA Mounting [mm]          | 4 holes; 400 x 400 (FDMI); M6          |

## MediaPlayer

|                         |   |
|-------------------------|---|
| Supported Image Formats | JPG (baseline, progressive, RGB, CMYK); max. resolution 5000 x 5000; PNG (interlace, alpha channel); max. resolution 4000 x 4000  |
| Supported Video Formats | MP4 / MOV / FLV (video H.264, audio MP3, AAC); max. resolution 1080p at 30 Hz, 1080i at 60 Hz; MPG (video mpeg1/2, audio mpeg audio layer2/3, AAC-LC); MP @ ML, MP @ HL; WMV (video H.264, wmv advanced L3, wmv simple / main, audio mp3 wmv std); max. resolution 1080p at 30 Hz, 1080i at 60 Hz |
| Supported Audio Formats | MP3 (MP3); max. bit-rate 320 kBit/s; WAV (LPCM); max. 48 kHz sampling   |

## Available Options

|                     |  |
|---------------------|--|
| Accessories         | Calibration kit (KT-LFD-CC2); Feet (ST-5220); Overframe kit (KT-55UN-OF2); Remote control kit (KT-RC3); Speaker (SP-TF1); Wall mount (PD04VW MFS 46-55 L/P; PD04VW QR 46-55 L/P; CK02XUN MFS 55 L/P; CK0XUN551S MFS 55 L/P ) |
| Compute Module Slot | Raspberry Pi Compute Module 1 and 3  |
| OPS Slot            | Intel® Atom, Celeron and Core i3, i5, i7 Slot-in PCs   |

## Green Features

Energy Efficiency

Annual energy consumption: 383 kWh (based on 4 operating hours per day); Carbon savings meter; Energy efficiency class: D; Human Sensor; LED backlight

**Additional Features**

|                         |   |
|-------------------------|---|
| Special Characteristics | Auto ID assignment; Auto tiling function; Automatic Alarm E-Mails; DICOM Simulation; Frame Comp; HTTP Server; Image flip; Intelligent Wireless Data (based on NFC); NaViSet Administrator 2; PJLink Support; TileMatrix; USB Media Player; User input priority definition; User readable log function |
| Colour Versions         | Black Front Bezel, Black Back Cabinet   |
| Safety and Ergonomics   | BSMI; CE; EAC; EMC Class B; FCC; PSB; RCM; REACH; RoHS; SASO; TÜV GS; UL/C-UL; VCCI   |
| Pixel Failure Class     | ISO 9241-307, Class 2   |
| Audio                   | Optional Speakers (15 W + 15 W)   |
| Plug and Play           | VESA DDC/CI   |
| Shipping Content        | Display; DisplayPort Cable; HDMI Cable; LAN cable (RJ45); Power Cable   |
| Warranty                | 3 years warranty incl. backlight; additional services available; optional 4. + 5. year warranty extension   |
| Operating Hours         | 24/7  |



CE



RCM



RoHS



TÜV GS



VCCI

This document is © 2020 NEC Display Solutions Europe GmbH.

All rights reserved in favour of their respective owners. All hardware and software names are brand names and/or registered trademarks of the respective manufacturers. All specifications are subject to change without notice. Errors and omissions are excepted. 06.05.2020