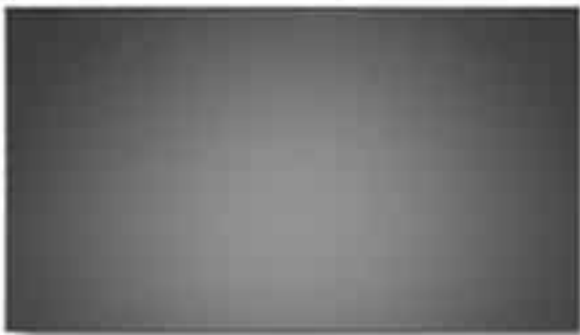


NEC MultiSync® UN552

LCD 55" Video Wall Display

Datasheet



Video Walls you can rely on

The MultiSync® UN552 sets the standard for video wall technology. Featuring a minimal 3.5 mm bezel these display modules create impressive high resolution video walls with barely visible image gaps. With perfect picture quality and high product reliability, these displays are designed for the rigors of 24/7 operation. At a high brightness level of 700 cd/m² your message will be well received with effortless readability even in the brightest ambient light conditions. An advanced set of intelligent features make the displays easy to install and operate and support significantly reduced maintenance requirements. The 55" display is ideally suited to create huge screen surfaces for fixed installations and for mid and longer viewing distances.

NEC's vast experience in the video wall market is evident in the design with features that reduce costs, ease installation and enhance the visual impact of content in control rooms, broadcast studios, transport installations and the rental market.

Benefits

Easy installation – effortlessly set up you wall display with Auto TileMatrix and out-of-the-box calibrations. Save time by plugging in ready-to-use image presets for predefined application scenarios.

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.

Secure Reliability and Longevity of Video Walls – unique NEC heat management system enables the user to monitor and control the heat inside the display.

Smart media integration – seamlessly integrate the media source of your choice into the video wall display. Use the wide range of NEC's OPS Slot-in PCs, and Raspberry Pi compute modules, for content feed and computing.

Lifelike and consistent colour – expect colour reproduction that feels true to life with IPS panel technology, the top choice when it comes to colour consistency. The S-IPS panel ensures that perfect visibility is maintained in landscape and portrait mode and at extreme viewing angles as viewers pass by.

Product Information

| | |
|---------------|----------------------------|
| Product Name | NEC MultiSync® UN552 |
| Product Group | LCD 55" Video Wall Display |
| Order Code | 60004884 |

Display

| | |
|---------------------------------|---|
| Panel Technology | S-IPS 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/m²] | 700 |
| Contrast Ratio (default) | > 1700:1 |
| Viewing Angle [°] | 178 horizontal / 178 vertical (typ. at contrast ratio 10:1) |
| Colour Gamut | 72% of NTSC |
| Response Time (typ.) [ms] | 8 |
| Panel Refresh Rate [Hz] | 60 |
| Haze Level [%] | Pro (28) |
| Supported Orientation | Landscape; Portrait |

Resolution

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

Synchronisation Rate

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

Connectivity

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|----------------------|--|
| 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 (MediaPlayer); 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 | 1 x 3,5 mm jack |
| Output Control | LAN 100Mbit |

Calibration

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|----------------------------------|---|
| 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 3 Slot (NEC proprietary standard) |

Sensors

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|--------------------|--|
| 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

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|------------------------|--------------------------------|
| Power Consumption [W] | 150 shipping; 380 (max.) |
| Power Savings Mode [W] | < 0.5; < 2 (Networked Standby) |

Environmental Conditions

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

| | |
|-----------------------------|-----------|
| Storage Temperature [°C] | -20 to 60 |
|-----------------------------|-----------|

Mechanical

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|--------------------------------|--|
| Dimensions (W x H x D) [mm] | Without stand: 1,213.4 x 684.2 x 103.8 |
| Weight [kg] | Without stand: 25.5 |
| Bezel Width [mm] | 1.2 bottom/right; 2.3 top/left; 3.5 |
| VESA Mounting [mm] | 4 holes; 400 x 400 (FDMI); M6 |

MediaPlayer

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|----------------------------|---|
| 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

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|---------------------|---|
| Accessories | Calibration kit (KT-LFD-CC2); Feet (ST-5220); Overframe kit (KT-55UN-OF5); Remote control kit (KT-RC3); Speaker (SP-RM3); Wall mount (PD04VWM MFS 46-55 L/P; PD04VW QR 46-55 L/P; CK02XUN 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 |

Regulatory

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|-----------------------|---|
| Safety and Ergonomics | BSMI; CE; EAC; FCC; PSB; RCM; REACH; RoHS; SASO; TÜV GS; TÜV S; UL/C- UL; VCCI |
| Pixel Failure Class | ISO 9241-307, Class 2 |

Green Features

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|----------------------|--|
| Energy Efficiency | Carbon savings meter; Energy consumption: 141 kWh/1000 h; Energy efficiency class: G; Human sensor; LED backlight |
| Ecological Standards | EnergyStar 8.0 |

3rd Party Certifications

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|----------|----------------------------------|
| Crestron | Certified for Crestron Connected |
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Additional Features

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|-------------------------|---|
| 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 - free download; PJLink Support; TileMatrix; USB Media Player; User input priority definition; User readable log function |
| Colour Versions | Black Front Bezel, Black Back Cabinet |
| 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 ¹ |
| Operating Hours | 24/7 |

¹ please refer to terms and conditions of warranty extensions



CE



RCM



RoHS



TÜV GS



VCCI

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