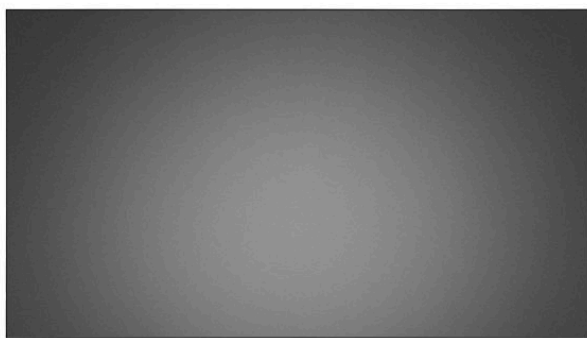# SHARP / NEC

NEC MultiSync® UN462A
LCD 46" Video Wall Display

Datasheet

Turn every wall into an opportunity

The slim NEC Multisync® UN462A turns any wall into an opportunity to reliably display information like passenger information, restaurant menus, or corporate agendas. It was made with busy spaces in mind – like airports, train stations, casual dining restaurants and even mission-critical spots like control rooms – and optimised to project static and moving content. Designed with 700cd/m² of brightness and an anti-reflection haze filter, these screens are easy to read, even in bright environments. Installation and operation is a breeze. It comes equipped with powerful calibration capabilities, so the initial video wall setup requires minimal effort, while the long-term colour and brightness will maintain a striking homogeneity. The screen's frameless design forms a flat digital canvas that allows it to blend in and create 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.

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.

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.

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	NEC MultiSync® UN462A
Product Group	LCD 46" Video Wall Display
Order Code	60004517

Display

Panel Technology	VA with Direct LED backlights
Active Screen Area (W x H) [mm]	1,018 x 573
Screen Size [inch/cm]	46 / 117
Aspect Ratio	16:9
Pixel Pitch [mm]	0.530
Brightness [cd/m²]	700
Contrast Ratio (typ.)	3500:1
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 (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	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

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 (Media Player); 1 x USB 2.0 (Downstream); 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

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

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]	125 shipping; 350 (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: 1,022 x 577 x 101
Weight [kg]	Without stand: 21.4
Bezel Width [mm]	1.2 bottom/right; 2.3 top/left; 3.5
VESA Mounting [mm]	300 x 300 (FDMI); 4 holes; 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-322); Overframe kit (KT-46UN-OF5); Remote control kit (KT-RC3); Speaker (SP-TF1); Wall mount (PD04VWM MFS 46-55 L/P; PD04VW QR 46-55 L/P; CK02XUN MFS 46 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	Carbon savings meter; Energy consumption: 144 kWh/1000 h; Energy efficiency class: G; 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; TÜV S; 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 [1]
Operating Hours	24/7

[1] please refer to terms and conditions of warranty extensions

VCCI	TÜV GS	RoHS	RCM	CE