NEC MultiSync® X461UN
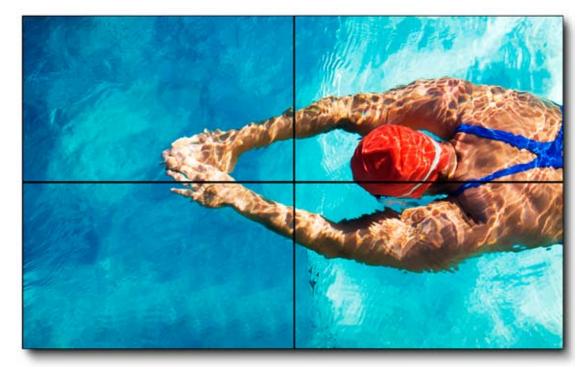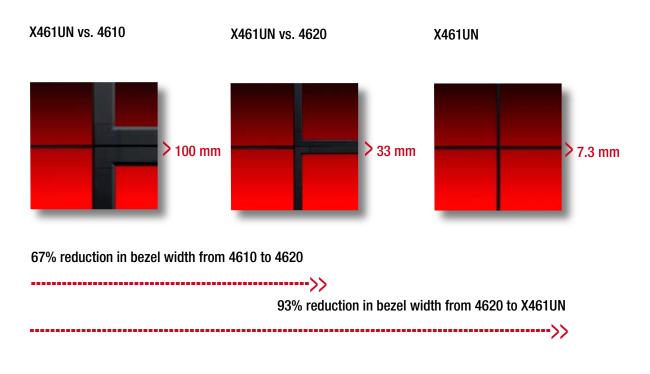
Preliminary

The ultimate video wall product for perfect video walls with the benefit of LCD technology and NEC quality.

• Super slim bezel with 7.3 mm between contents
• 46 inch Public Display with professional LCD panel
• Ambient light sensor for optimized brightness levels and minimized power consumption
• High brightness up to 700 cd/m²
• Factory and user calibration for perfect brightness and color uniformity
• Option slot for Buillt-In PC, DVI Daisy chain and other boards

see more.

NEC Display Solutions

NEC MultiSync® X461UN

BEZEL WIDTH EVOLUTION

Bezel width has been reduced drastically from one generation to the next to improve tiling performace and esthetics

X461UN vs. 4610

X461UN vs. 4620

X461UN

> 100 mm

> 33 mm

> 7.3 mm

67% reduction in bezel width from 4610 to 4620

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93% reduction in bezel width from 4620 to X461UN

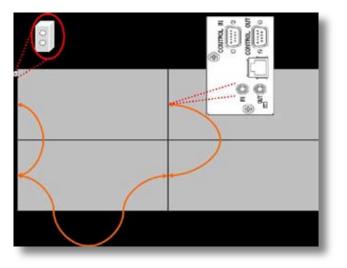-->>

AMBIENT LIGHT SENSOR

The natural changes in brightness in many environments also suggest a brightness adjustment of video walls. Since it would be very inconvenient to adjust brightness levels manually, the MultiSync X461UN features an external ambient light sensor the position of which the user can freely determine.
The displays in the wall are daisy chained with a supplied cable to adjust the brightness of the entire wall evenly through the ambient light sensor.
The automatic brightness control of the video wall helps reduce power consumption and avoids blinding brightness levels seen with LED walls.

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CALIBRATION FEATURES

Only pefect looking screens are able to communicate a strong and clear message. In order to secure perfect color and brightness uniformity, MultiSync X461UN products are calibrated by the factory at 500 cd/m^2. Furthermore the products are „aged" to make sure the calibration remains stable and the uniformity will not change after a few ours of operation.

Depending on what color temperature or brightness level is desired, the X461UN enables the user to do his own calibration.
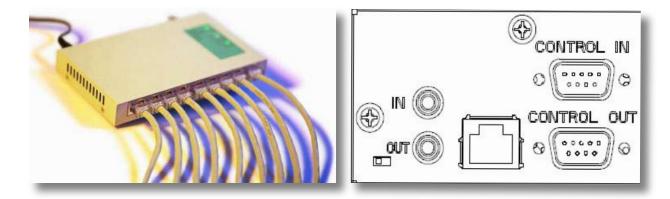

ETHERNET CONTROL

It is crucial in many installations to control the products remotely. Sometimes inputs are changed, sometimes the user simply requires a confirmation the displays are running perfectly and don't experience any problems. While this was done in the past and will be possible in the future with NEC public displays, the X461UN offers these features not only through RS232 but also via Ethernet

The product is supplied with an Ethernet port which enables certain controls over the network and alarm emails in the unlikely event of product problems such as back light failures or overheating.

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HEAT CONTROL

Public displays emit a certain amount of heat during operation as not all energy is converted to light. While this is not a major concern in stand alone installations, it is something that needs to be considered when building a video wall. Good ventilation is crucial because very often the termperatures rise from row to row In order to verify the temperature of the wall, the user can check the thermal status of each screen thanks to the integrated temperature sensors of the X461UN. Furthermore the user can not only activate the fans of the product but determine fan speed and temperature thesholds for their activation.
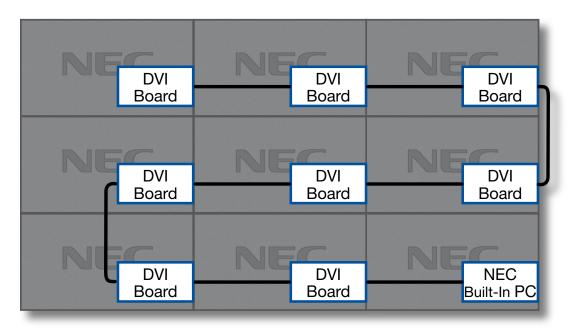Due to the sensors and the normally inactive fans, the X461UN enables the user to secure perfect operating environment with unparalleled longevity and reliability of a wall built with NEC MultiSync X461UN.
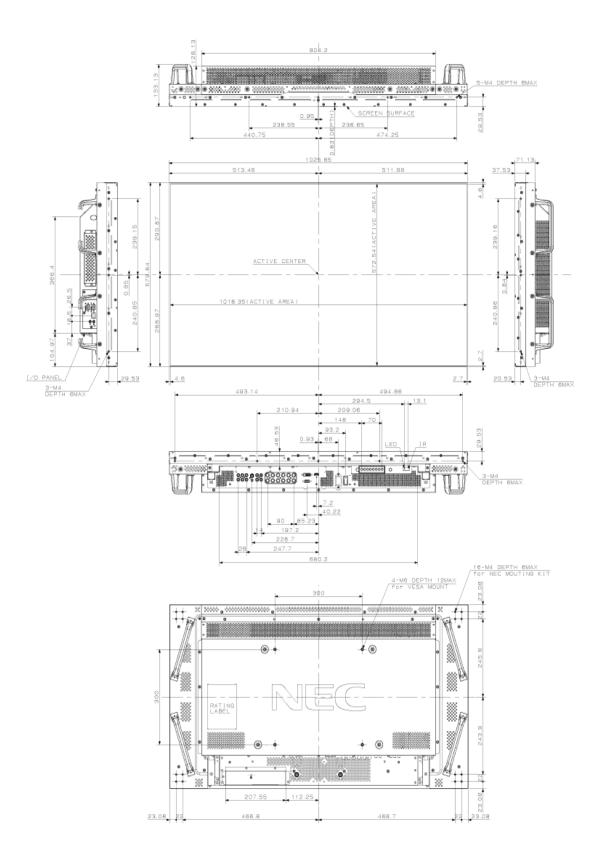

VIDEO DAISY CHAIN

There a many ways to drive a video wall with X461UN depending on size and budget of the installation.
A cost efficient way NEC recommends for walls of 3x3 or smaller is to use the NEC Built-In PC together with NEC DVI daisy chain boards.

The advantage of this solution is that all hardware components including the required DVI cables are supplied by a single vendor. This secures compatibility of all components, service from a single source and 3 years of warranty for all hardware products in the in the solution.

NEC MultiSync® X461UN

THIS PRODUCT IS NOT SYMMETRY FOR SCREEN CENTER.

X461UN OUTLINE DRAWING

NEC Display Solutions, Ltd.

2009/1/16

NEC MultiSync® X461UN

TECHNICAL SPECIFICATIONS

Panel Technology	S-PVA TFT
Active Screen Area (W x H) [mm]	1018.4 x 572.5
Screen Size [inch/cm]	46/117.0
Viewing Angle (typ.)	178° horizontal / 178° vertical (typ. at contrast ratio 10:1)
Screen Aspect Ratio	16:9
Pixel Pitch [mm]	0.746 x 0.746
Contrast Ratio (typ.)	3000:1
Brightness (typ.) [cd/m²]	500 at 5°C - 40°C (factory setting), 650 at 5°C - 20°C, 700 at 5°C - 8°C)
Response Time (typ.) [ms]	8 ($t_r + t_f$; grey-to-grey); 16 (6 white/black; 10 black/white)
Colours [million]	16.77
Horizontal Frequency [kHz]	31.5 - 91.1 (analog and digital)
Vertical Frequency [Hz]	50.0 - 85.0
Optimum Resolution	1360 x 768 at 60 Hz
Native Resolution	1366 x 768 at 60 Hz
Other Resolutions	1920 x 1080; 1366 x 768; 1440 x 1050; 1680 x 1050; 1600 x 1200; 1280 x 1024; 1280 x 768; 1024 x 768; 832 x 624; 800 x 600; 720 x 400; 640 x 480
Video Input	Analog: 5 x BNC, Component, Composite (via BNC and Cinch); 1 x S-Video; 1 x Dsub 15; Digital: 1 x DVI-D (with HDCP); HDMI 1.3
Video Output	Analog: 5 x BNC, Composite (via BNC); HDMI 1.3
Audio Input	2 x Cinch, 1 x 3.5 mm Head-jack
Audio Output	1 x Cinch
Option Slot	Built-in PC, DVI daisy chain board, HD-SDI board, CAT 5 receiver
Plug & Play	VESA DDC2Bi
Safety and Ergonomics	UL/C-UL or CSA; FCC Class B; TÜV GS; VCCI; CE; C-tick; PSB; CCC
Power Consumption (typ.) [W]	200 (at 500 cd/m²); 330 (max.)
Power Management	VESA DPMS
Power Requirements	100 - 120/220 - 240 V; 3.6/1.45 A; internal power supply
Operating Temperature [°C]	+5 to +40*
Operating Humidity [%]	20 to 80
VESA Mounting Interface [mm]	300 x 300 (FDMI); 4 holes
Dimensions (W x H x D) [mm]	With stand: 1025.7 x 623.6 x 351; Without stand: 1025.7 x 579.8 x 128.1
Bezel Width [mm]	4.6 top/left; 2.7 bottom/right
Specials	10 bit LUT for calibration, 10 x 10 Tile Matrix with up 100 IDs through RS232, copy display settings through RS232, user controllable back up fans with 2 speeds; TCP / IP control, external ambient light + IR sensor
Weight [kg]	30.8 (with stand); 29.0 (without stand)
Supported TV Standards	NTSC; PAL; SECAM
Video Modes	480i; 480p; 576i; 576p; 2 x 720p (50 and 60 Hz); 2 x 1080i (50 and 60 Hz); 2 x 1080p (50 and 60 Hz)
Audio Functions	Amplifier: 2x 15 Watt, no optional speakers
Remote Control	RS-232C (9 pin D-Sub) Input + Output; Dsub 15 and DVI-D (DDC/CI); Remote Control IR
Colour Versions	Black Front Bezel/Black Back Cabinet
Stand	Optional**
Shipping Content	Display, Power cable, remote control, external senor (IR + ambient light), 3,5 mm jack cable, calibration software, sensor, CD manual
Warranty	3 years warranty including backlight

*The ambient temperature influences the max. brightness. See „brightness" specification.

LCD461UN-UK-2/09

www.nec-display-solutions.com
NEC Display Solutions Europe GmbH