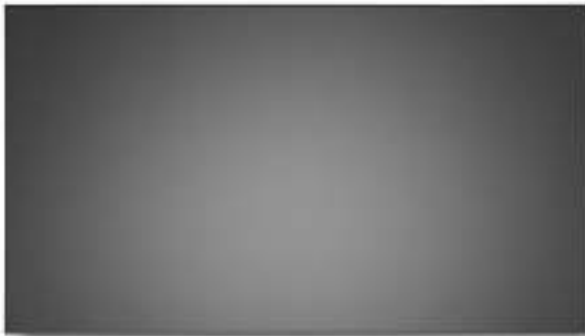


NEC MultiSync® UN552S
LCD 55" Video Wall Display

Datasheet



Bring your walls to life

For the most engaging and creative visual experiences, the 55" MultiSync® UN552S video wall display offers better image quality, easier installation and a reliable longer-lasting performance.

Installation and operation becomes so simple as powerful calibration capabilities provide compelling picture performance throughout the display's entire lifetime. Tune picture attributes according to your specific application needs and create a single image across multiple displays. With a combined adjoining bezel of just 0.88mm, the holistic video wall experience offers an expansive digital canvas with barely noticeable interruption. The 700cd/m² display brightness and an anti-glare surface delivers the best readability with no annoying reflections even in bright ambient light conditions.

Attracting shoppers in retail malls, entertaining museum-goers or presenting menu choices, these large modular displays, in different shapes and formations, get your content noticed.

Benefits

Easy installation – effortlessly set up your 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.

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.

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.

Product Information

Product Name	NEC MultiSync® UN552S
Product Group	LCD 55" Video Wall Display
Order Code	60004523

Display

Panel Technology	S-IPS with Direct LED backlights
Active Screen Area (W x H) [mm]	1,209.63 x 680.34
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

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
Supported on HDMI only	1080i (50/60 Hz)			

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 (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

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]	165 shipping; 420 (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: 1,210.5 x 681.2 x 98.6
Weight [kg]	Without stand: 25.8
Bezel Width [mm]	0.44 bottom/right; 0.44 top/left; 0.88
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); Remote control kit (KT-RC3); Speaker (SP-TF1); 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

Green Features

Energy Efficiency	Carbon savings meter; Energy consumption: 209 kWh/1000 h; Energy efficiency class: G; Human Sensor; LED backlight
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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



CE



VCCI



RCM



TÜV GS



RoHS

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**partner for your mission
critical control room**

Mauell BV can offer you

- **turn-key tailormade solutions in cooperation with partners**
- **the following disciplines: Civil, mechanical engineering (HVAC), Lighting and electrical, ergonomics, console analysis, Technical Design Specifications; Engineering, Functional design and detail design**
- **architectural design, interactive approach aimed at functionality**
- **construction and realization through project delivery, assembly and project management**
- **service and after sales, planned maintenance and improvement processes**
- **remote support, local support, 24/7/365 from Harderwijk, The Netherlands**
- **Mauell BV is a proven service provider, manufacturer and integrator**



With this brochure we like to give you an impression of what we can do for you
We are more than willing to give you more information
Please contact us or visit the website

Mauell: more then 60 years in Control rooms

Our disciplines:

Video walls



Workplace management



Mosaic



Our core competences

- **Control room Design**
- **Control room Visualization**
- **Engineering**
- **Control room Visualization**
- **Turn key projects**
- **Display and Cube
Retrofit / maintenance**
- **System Integration**
- **Worldwide service**



Our main products

**X Omnium
Wall management**

Display technology

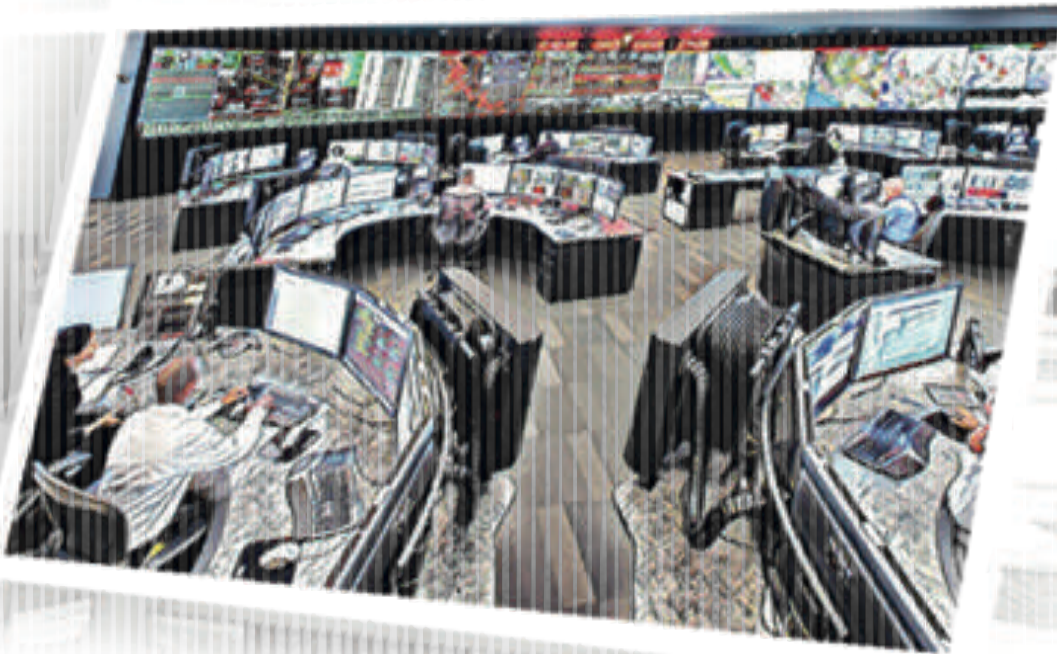
**Workplace management
DB-Unistation**

Furniture

Mosaic

Xomnium

Videowall Solution



Xomnium is Mauell's network engineered visual system for data sharing and collaboration across multiple platforms.

Xomnium

Videowall Solution

Reliable, secure, real-time situational awareness, analysis and response.

A Mauell designed control room with the Xomnium system gives you the ability to make fast, safe decisions in mission-critical situations.

keeping you in control, in real-time.

- ⊕ Secure, extremely low latency video and data sharing across multiple videowalls and operator desks**
- ⊕ Move any data from any source on your network for multi-tasking and collaboration**
- ⊕ Easy to integrate and update with no down time**
- ⊕ Unparalleled levels of performance, security and scalability**
- ⊕ Reduced mission-critical response time via low latency**
- ⊕ Corporate showpiece**

System Overview



Core systems

Display, Stream and Control.

The core X Omnimium systems are designed to dramatically improve your onsite control room operations.



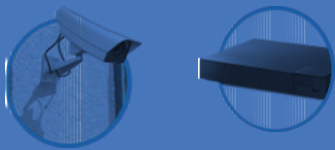
Xomnium

Control Room

Xomnium control



Control the
video solution



Unlimited capture of IP devices
like camera's and encoders



Configure multiple video
wall configurations from
one single application

Xomnium display



Collaborate with field ops
by sharing information
between the control room
and the field



Bring desktop
application to
videowall

Xomnium stream

Bring content to
your desktop

Xomnium Display Driver



Each Individual LCD display or Cube is equipped with its own embedded PC.

This makes the system highly resilient and failure tolerant.

The system is highly scalable. Videowalls of 4 to 80 screens is no exception.

All streams can be positioned freely over the wall(s).

Easily send content to walls outside your building or send to multiple walls within the same room via (secure) network.

Your own desktop can be a videowall, so information can be shared on your own workspace.

Xomnium XStream



Integrate your Windows sources via XStream software.

Stream the desktop or multiple applications from a workstation to the video wall and to other workstations on the desk.

Extreme low latency.

Xomnium Control



Control layouts and scenarios with the new web based client or the desktop application for windows PC's.

Configure multiple videowalls and shared sources from one application.

Integrate tablets and mobile devices via a powerful API in control rooms, meeting rooms and crisis situations to take full advantage of the power of Xomnium.

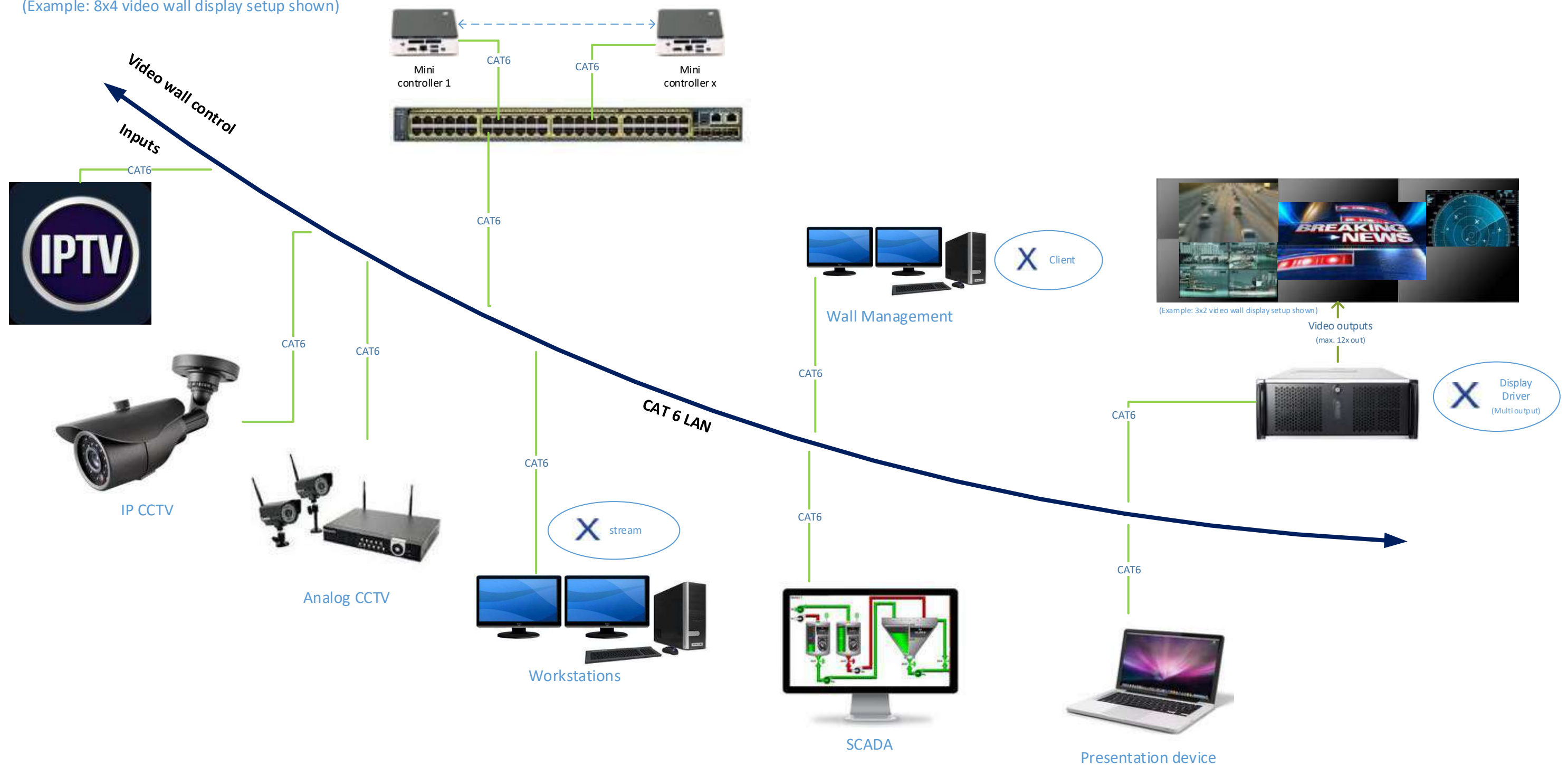
Control your user rights via an extensive module.

X Omnium features

mauell



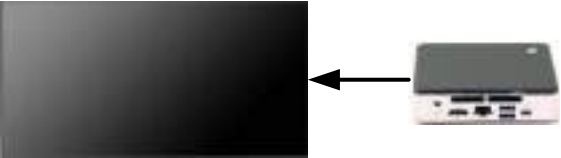
(Example: 8x4 video wall display setup shown)



X Omnium: Display driver & Xclient overview



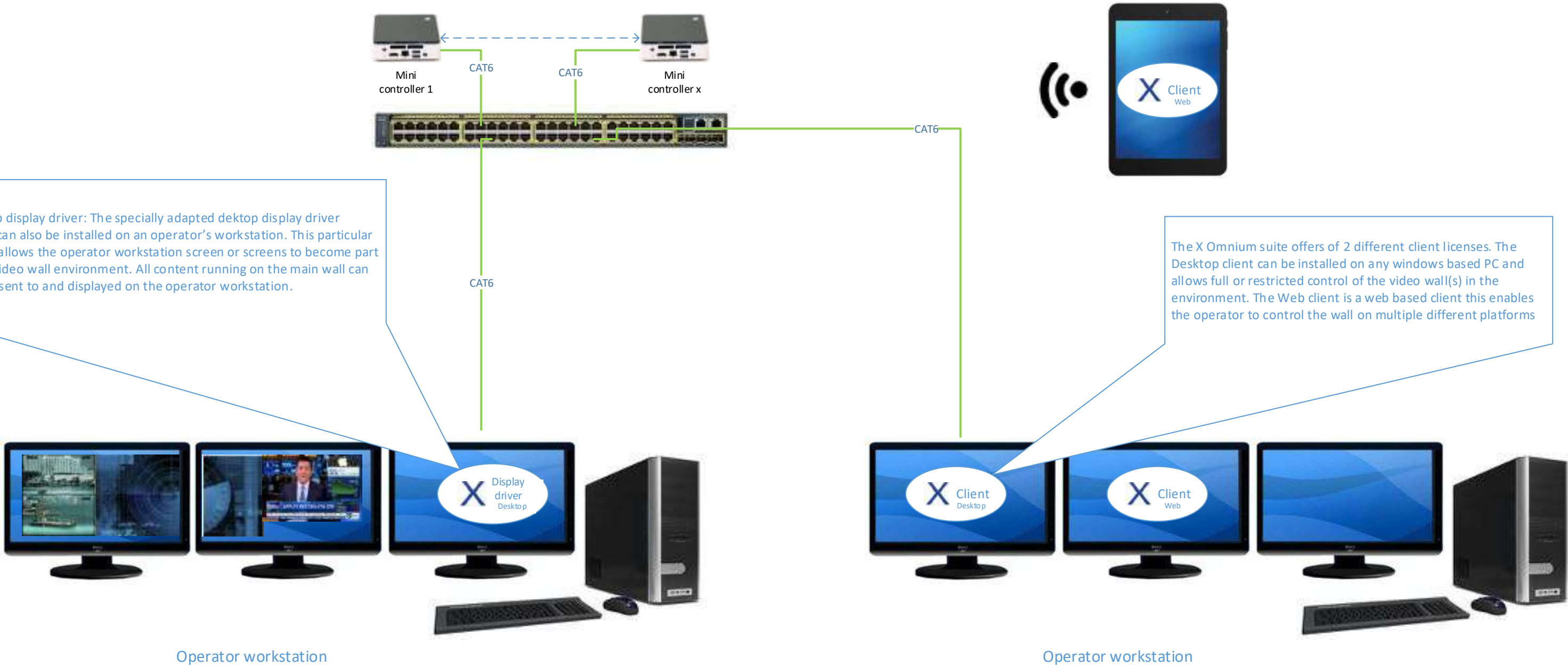
(Example: 8x4 video wall display setup shown)



Each Display is equipped with an embedded mini controller with X display driver installed

Desktop display driver: The specially adapted dektop display driver option can also be installed on an operator’s workstation. This particular license allows the operator workstation screen or screens to become part of the video wall environment. All content running on the main wall can also be sent to and displayed on the operator workstation.

The X Omnium suite offers of 2 different client licenses. The Desktop client can be installed on any windows based PC and allows full or restricted control of the video wall(s) in the environment. The Web client is a web based client this enables the operator to control the wall on multiple different platforms



References

We have references at sites of reputable end users. These organizations operate in diverse fields. From chemical and petrochemical, security and government to energy or infrastructure. Even in the fishing industry.



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