

NEC DISPLAY SOLUTIONS

# HIPERWALL

VIDEOWALL CONTENT AND SOURCE MANAGEMENT SOLUTION



**Super-High Resolution**  
Multiple Source and Display Combinations

## Videowall Content and Source Management

Hiperwall is an ultra high resolution software package for an endless number of displays which is scalable in size and eliminates costly servers, matrix switches and distributors.

It enables customers to connect an infinite number of sources to a videowall and freely determine size and position of this content.

Hiperwall also provides advanced capabilities like zoom, rotation, shading and transparency, enabling users to examine content with increased flexibility and effectiveness. Content can be saved as environments and restored on demand, grouped into slideshows, or scheduled to appear at the present time.

### IDEAL FOR MULTIPLE APPLICATIONS

- Command & Control Centres
- Public Safety
- Aerial Surveillance
- Military Operations
- Scientific Imaging
- Trading Floors
- Fleet Management
- Manufacturing Control Systems
- Medical Imaging
- Digital Signage

### OUTSTANDING PERFORMANCE

Hiperwall can show various types of information including:

- large images, a gigabyte in size or larger
- many ordinary images
- movie files
- live streaming data from a computer
- live streaming data from a peripheral device e.g. video camera

You can resize and reposition all of these data types anywhere on the wall at any time, as easily as moving and resizing the windows on an ordinary PC desktop.

It is also possible to arrange monitors into multiple walls or have "satellite" monitors that can all be controlled through the same control station.

A new feature, called Share, allows Sender data to be sent to multiple Hiperwall installations around the world. Multiple Sender Nodes can connect to the Share Node and then be distributed to several Hiperwall systems.

### HIPERWALL CONFIGURATIONS



### DELIVERING GENUINE BENEFITS

Connect Multiple Sources and Display and Objects Combinations

Manipulate Objects without Source Modification

Each Display is used in Full Native Resolution

User-Friendly and Intuitive User Interface

Built-In Scheduler for Digital Signage. Define Content Time and Duration

Runs over Ethernet, Eliminating Complexity, Cost, Footprint and Reducing Power Consumption and Cable Clutter



### HIPERWALL OPERATION

The Videowall displays all content as directed by the Controller, including Screen Senders, Streamers and content stored on the wall in advance.



The Controller manages how all content is displayed on the wall.

It enables the operator to control the size and location of each object as easily as moving and resizing windows on a PC desktop.



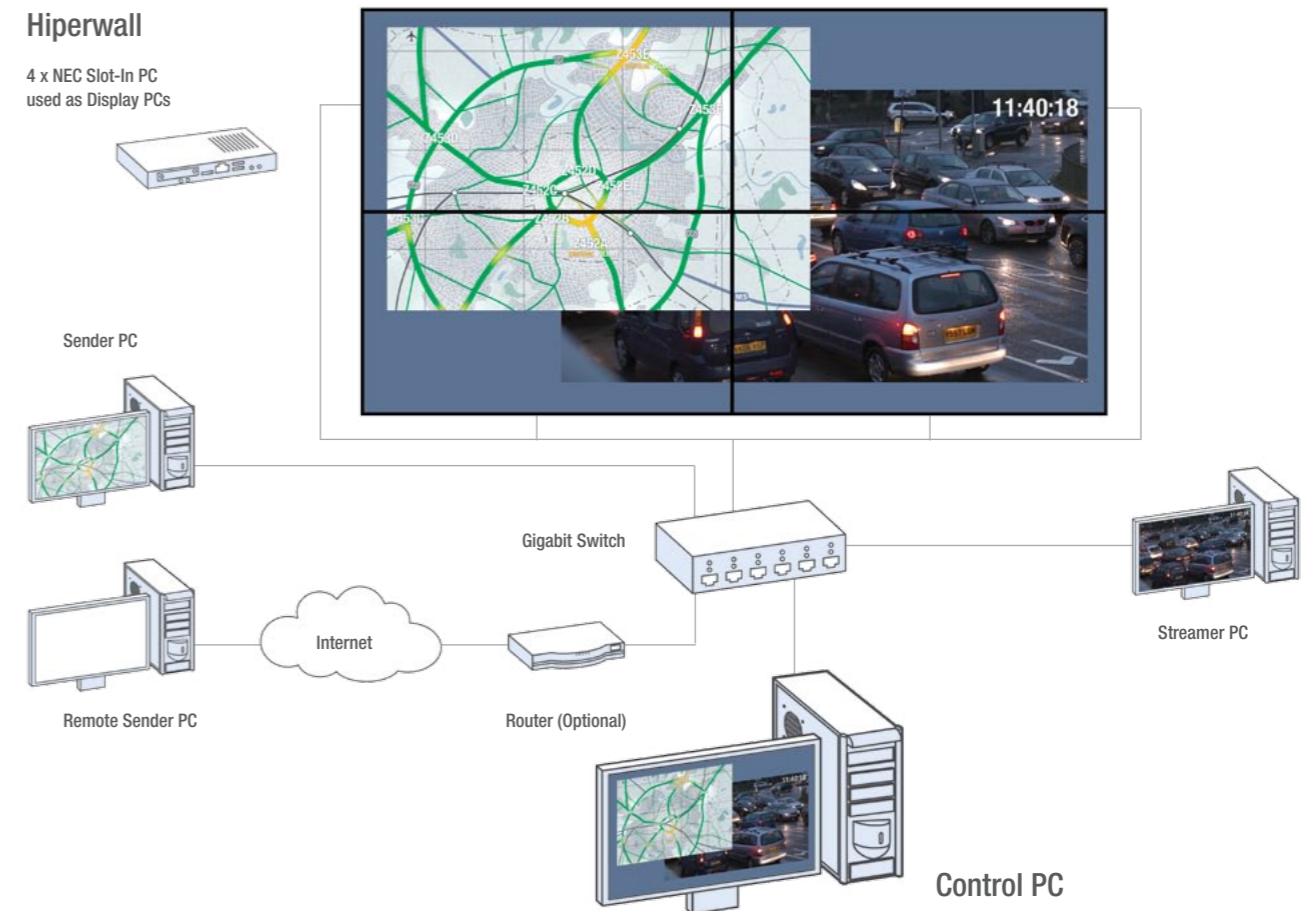
Screen Senders are ordinary PCs that 'send' constantly updated copies of their screen images to the wall.

Streamers feed live recorded video to the wall from cameras, DVD players and other video sources.

### INFRASTRUCTURE IS COMMODITY ETHERNET

#### Hiperwall

4 x NEC Slot-In PC used as Display PCs



### HIPERWALL LICENCES

Hiperwall consists of up to four main components, two of which are always needed. Each screen needs a PC (NEC Slot-in PC - STv2) and all components are connected via a gigabit switch.

#### NECESSARY:

- 1. Control Licence:** Manages the entire Hiperwall installation. It allows you to control what content appears on the videowall, where it appears, and how it appears. Sender PCs can be remotely controlled from the Control PC by the built-in KVM switch.
- 2. Display Licence:** The combination of a display and its controlling PC. The Display Licence is needed for each display and will be installed on the NEC Slot-in PC (STv2).

#### OPTIONAL:

- 3. Sender Licence:** Enables you to reproduce the screen of a PC as a content object on the videowall. You can run a single application on the Sender PC, or multiple applications. Sender allows users to show data from nearly any application, even proprietary ones. Allows a maximum of two sender windows. Sender can also be remote via internet.

- 4. Streamer Licence:** Allows you to show streaming content on the videowall. In most cases the Streamer PC shows a live camera feed or video from DVD or video tuner. Allows a maximum of two streams.
- 5. Secondary Controller Licence:** This product provides powerful control capabilities to display and manipulate content on the videowall, but with an easy to use interface. Multiple secondary Control PCs can be used simultaneously, even from remote locations.
- 6. Sender Extra Window Licence:** Supports multiple sender windows per sender PC. Two sender windows are already included in the Sender Licence.
- 7. Streamer Extra Stream Licence:** Added a third type of video stream, whatever is being shown on the display (supplements previous device and file streams). Two streams are already included in the Streamer Licence.



# HIPERWALL

## VIDEOWALL CONTENT AND SOURCE MANAGEMENT SOLUTION

### HIPERWALL SPECIFICATIONS

PURCHASE ORDER CODES		SUBSCRIPTION ORDER CODES*	
Hiperwall USB Stick - Licence Dongle	100012941	No additional USB Stick needed	
Ver 3 Control Licence	200004315	Control Subscription	200004187
Ver 3 Secondary Control Licence	200004313	Secondary Control Subscription	200004186
Ver 3 Display Licence	200004309	Display Subscription	200004188
Ver 3 Sender Licence	200004314	Sender Subscription	200004181
Ver 3 Sender Extra Windows Licence	200004311	Sender Extra Windows Subscription	200004183
Ver 3 Streamer Licence	200004310	Streamer Subscription	200004184
Ver 3 Streamer Extra Stream Licence	200004312	Extra Stream Subscription	200004185
SUPPORTED FILE FORMATS			
Images	jpeg, png, bmp, tiff		
Videos	All Formats Supported by QuickTime		
MAXIMUM FILE SIZE	Unlimited		
MAXIMUM NUMBER OF DISPLAYS	Unlimited		
MAXIMUM NUMBER OF SOURCES	Unlimited		
PC REQUIREMENTS			
Control PC	Microsoft Windows XP (SP2 or later), Vista or 7; Gigabit Ethernet; Dual Core processor, 2GHz or faster - 2.4 GHz Quad Core recommended; 1 GB RAM, 2 GB for Windows Vista or 7; Graphics Controller: NVIDIA 8xxx, AMD HD3xxx, or Intel HD2000 or later - 512MB dedicated Graphics Ram or higher. At least 1GB free storage (plus more for stored content).		
Display PC (NEC Slot-In PCs - STv2)	Atom for imaging only, Celeron for images and low resolution videos, Core i5 (1GB RAM, 2GB for Windows 7) for high resolution images and videos up to 720p		
Streamer PC	Microsoft Windows XP (SP2 or later), Vista, or 7; Gigabit Ethernet; Dual Core processor, 2GHz or faster; 1 GB RAM, 2 GB for Windows Vista or 7; NVIDIA GeForce 8xxx or later for hardware assist (strongly recommended) - High Definition or multiple streams require higher performance GPUs; Audio in and audio out required if audio is to be synchronized with the video being presented on the display PCs		
Screen Sender or Secondary Control PC	Computer with Oracle Java 1.6 ; 100MB/sec Ethernet or 802.11g or better (wireless); Dual Core processor recommended - more and faster cores will significantly boost frame rate; 1 GB RAM, 2 GB for Windows Vista or 7; Virtual Machine environments may be used		
Share PC	Microsoft Windows XP, Vista, or 7 Gigabit Ethernet Dual Core processor, 2GHz or faster (Quad core or more recommended); 4 GB RAM (more preferred)		
Ethernet Switch	Gigabit LAN, IGMP support for video streaming		
Supported Operating System	Windows XP, Vista, Windows 7, Sender PC can be Mac or Linux		
Streaming Speed with Streamer PC	60 frames per second with Streamer PC, 7 frames latency with audio delay compensation		
DISPLAY ORIENTATION	Landscape and Portrait		

### RECOMMENDED NEC HARDWARE

NEC PUBLIC DISPLAYS	All Public Displays Optimised for Videowall usage (46" and 55" X UN Series as well as P Series Models)
NEC PROJECTORS	PH and PX Series Installation Projectors
NEC SLOT-IN PCS	STv2 Core i5 / i7 recommended; Limitations to be considered with usage of lower performance CPU's.

\* All new versions of Hiperwall are available with a Software Subscription. Software Subscription is available for each Hiperwall license and for free for the first year.

For additional pictures and solutions overview, please visit [www.nec-display-solutions.com](http://www.nec-display-solutions.com)

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