

Video wall Controllers for Command & Control Center

Anytime Anywhere IN full CONTROL



About us

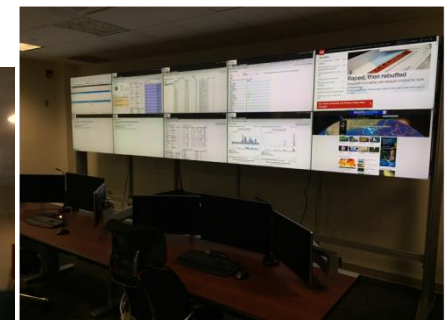
- ❑ Founded in 2013, Israel
- ❑ Privately owned company
- ❑ Extensive experience in video processing & Networking
- ❑ Focus on software development using selected off-the-shelf Hardware and assembly outsourcing
- ❑ Operations in Israel, US, India
- ❑ Sales globally to VARs and A/V Integrators
- ❑ OEMs – Hyundai, WeyTec, PrimeView
- ❑ 350+ projects globally



Customers & Partners

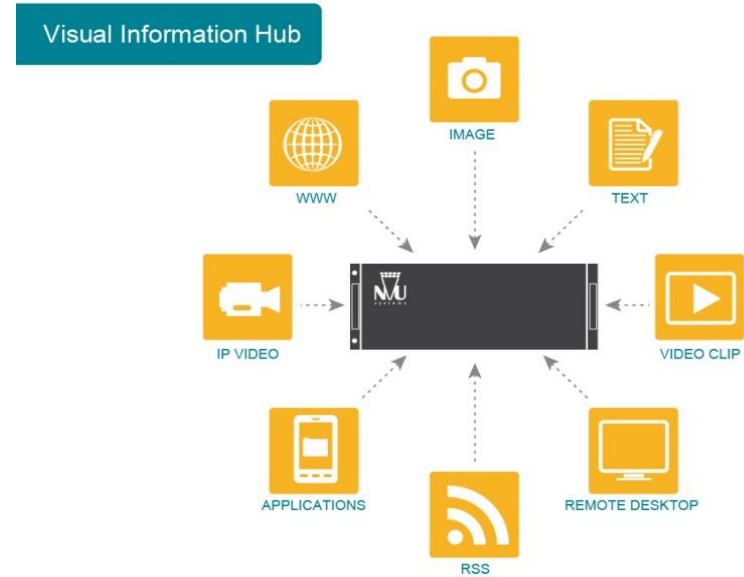


Some Projects



What Is Wall-Controller used for?

Collect multi-systems visual information, Process & Display on large surface



End Customers and Applications:

- ❑ Traffic, Transportation and Surveillance monitoring
- ❑ Power / Water / Gas (SCADA) utilities command and control rooms
- ❑ Broadcast and Telecommunications facilities
- ❑ Healthcare and military applications
- ❑ Corporate Meeting room, Auditorium, Signage



Visual Content is key for Decisions

TV channels



Maps



Safe City



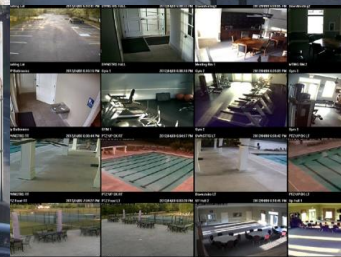
Time/Date/Text



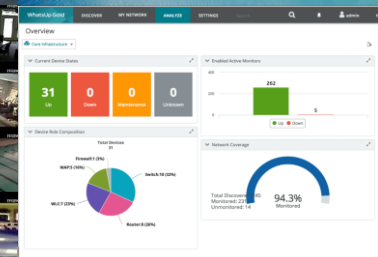
Traffic



IP Camera Feeds



Surveillance



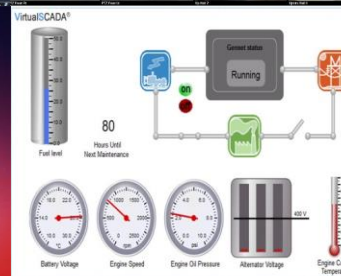
Monitoring



Broadcast



Signage



CAD Data



Collaboration

Full Range

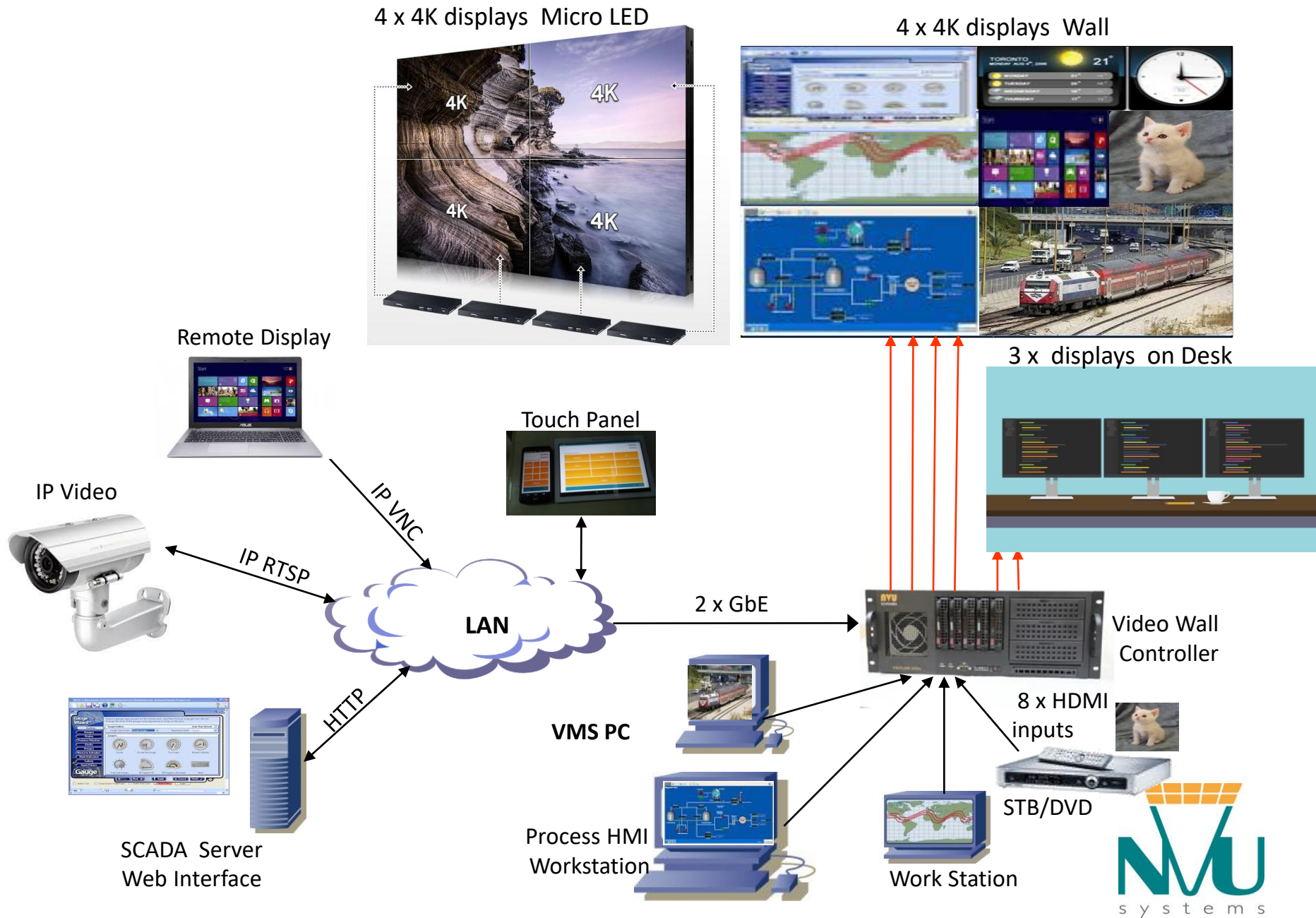
- ☐ Collact – Mini Computer (NUC) 2 FHD in/4 UHD Out
- ☐ Concert – Desktop 8 in/ 6 Out
- ☐ Arena (2 models) – 12 in / 12 Out
- ☐ Vista – 64 in / 48 out

Unified SW

- ☐ Windows® Win10 Pro, 64bit OS
- ☐ WallBrix 64bit Windows application
- ☐ Remote Agent (Win Desktop)
- ☐ IP video
- ☐ Remote control (LAN) - Telnet, XML API



System Architecture



Vista2020

High-End High-availability Controller

- ❑ Target Markets
 - ❑ Large Command & Control Centers
 - ❑ Broadcast studios
 - ❑ Multiple walls
- ❑ Sample Configuration
 - ❑ 24 x FHD inputs
 - ❑ 16 x H.264/5 IP video
 - ❑ 12 x UHD (4K) outputs



Arena4806

Mid Range (Most used) controller

- ❑ Target Markets
 - ❑ Medium Command & Control Centers
 - ❑ Safe City, Highway, Process monitoring
- ❑ Sample Configuration
 - ❑ 8 x FHD inputs
 - ❑ 8 x H.264/5 IP video
 - ❑ 12 x FHD Displays



Note:

Arena4809 is the same controller, with dual redundant PS and dual SSD @RAID1, (for the same configuration)

Concert41

Desktop controller

- ❑ Target Markets
 - ❑ Meeting rooms, Lobbies, Videoconference
 - ❑ Signage mixed with live broadcast, Sport Bars
- ❑ Sample Configuration
 - ❑ 4 x FHD inputs
 - ❑ 8 x H.264/5 IP video
 - ❑ 6 x FHD outputs



Colact22

Mini Controller

☐ Target Markets

- ☐ Meeting rooms, Lobbies, Videoconference, User Work-stations
- ☐ Signage mixed with live broadcast, Sport Bars

☐ Configuration

- ☐ 2 x FHD direct inputs
- ☐ 4-10 x H.264/5 IP video
- ☐ 2-4 x UHD outputs (HD daisy-chained)

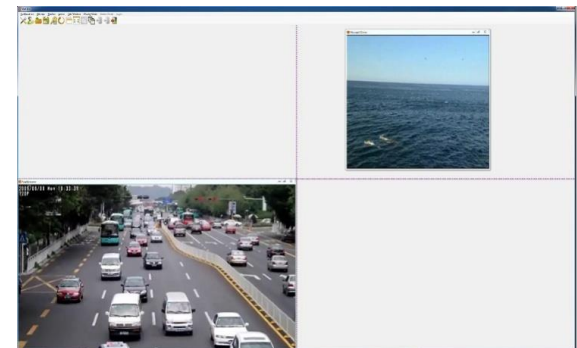


Platform Highlights

Flexible and highly integrated solution for Custom made

- ❑ Industrial grade PC platform with PS/Fan redundancy
- ❑ Intel Xeon CPU, 16GB DDR4, dual 240GB RAID-1 SSD
- ❑ Windows® 10 pro, 64bit OS
- ❑ Captured Sources – any video/audio format
- ❑ GPU based multi display – 6 x FHD / UHD
- ❑ Dual (redundant/load balanced) 1/10 Gb LAN inputs for Video over IP
 - ❑ Remote PC Screen/Keyboard sharing Over IP (VNC)
 - ❑ IP video streams (RTSP/RTP)
 - ❑ Web interface (HTTP)
- ❑ IP Streaming out (optional)
- ❑ Multiple logical independent walls (up to 5)
- ❑ Local or Remote control
- ❑ Open API for 3rd party application integration

-



Custom-made per order

Customer Requirements

- ☐ No. of Displays 2K/4K, No. & Type of inputs
- ☐ IP video – No. of Sources /Formats, Resolution/Bit-rate, Web sites (browser), Remote Desktops (VNC/RDP)
- ☐ High Availability, Redundancy level
- ☐ Operation – Remote control, Features (layout, drag & drop)

Cost/Performance Optimization

- ☐ Windows10 Pro, 64bit OS
- ☐ GPUs and Input cards – No. of Slots
- ☐ CPUs performance/Memory size

Integration Services

- ☐ Additional Features
- ☐ Crestron / Extron integration
- ☐ Customer Domain Policy
- ☐ Customer Setup and Support



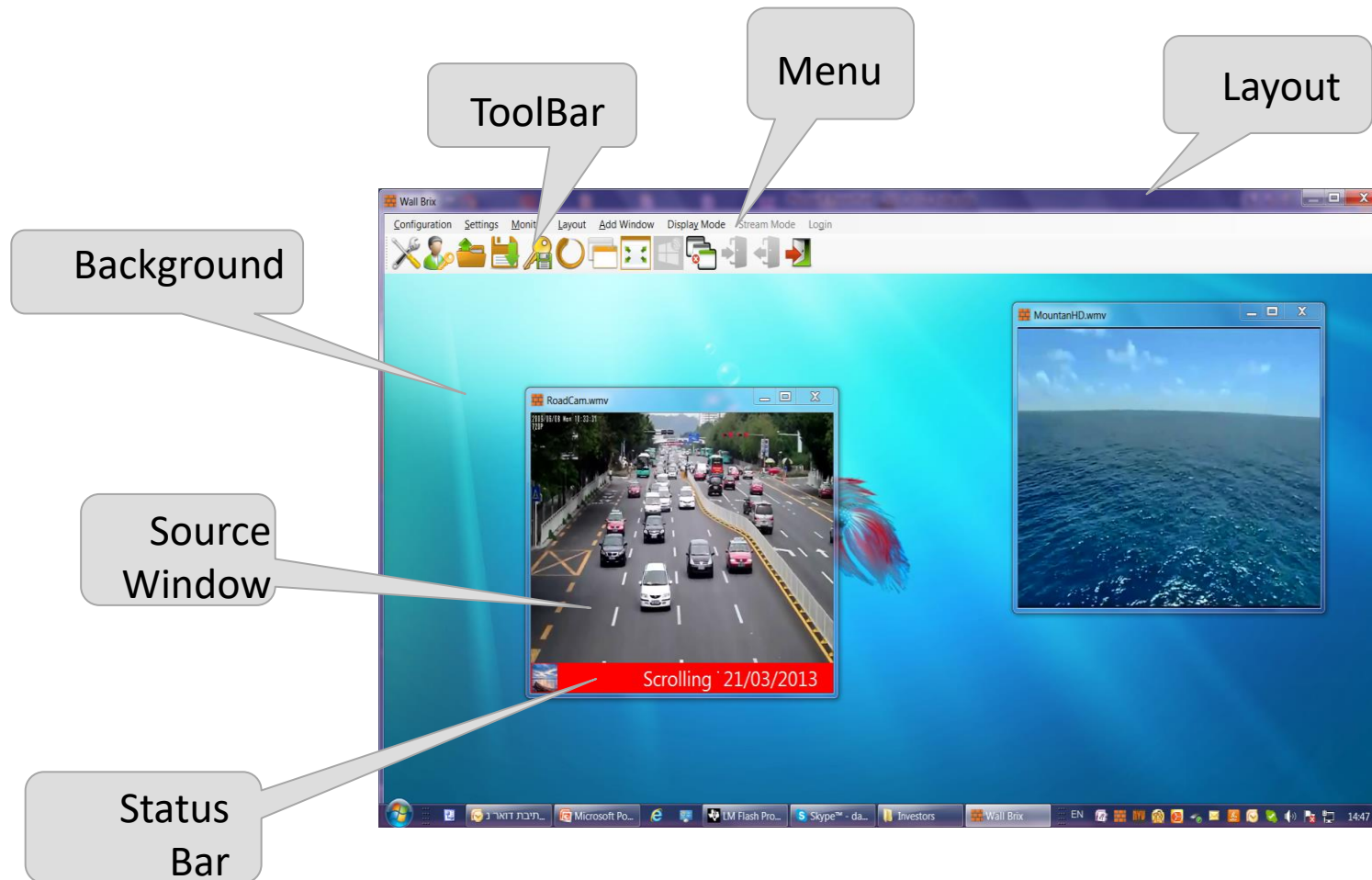
WallBrix Features

- Windows 10 Pro OS
- Complete I/O and display control
- User friendly dual control option (tools bar & context menu)
- Drag, drop, resizing, and set properties of windows
- Crop, Carousal, Color filters, Rotate
- Multi - User remote clients with Offline/Online operation modes
- Privileges attributes per user, sources, and views
- LDAP/Local user authentication option
- Can run Windows and Linux (emulation) applications
- Telnet/Web Services for 3rd party interface
- Events report log file
- Presets view and time based 24h loop views
- Web and Applications windows
- Video over IP – Remote desktop, Streaming
- Grid utility for snapping windows in layout design
- Collaboration –Video wall streaming to/from remote client



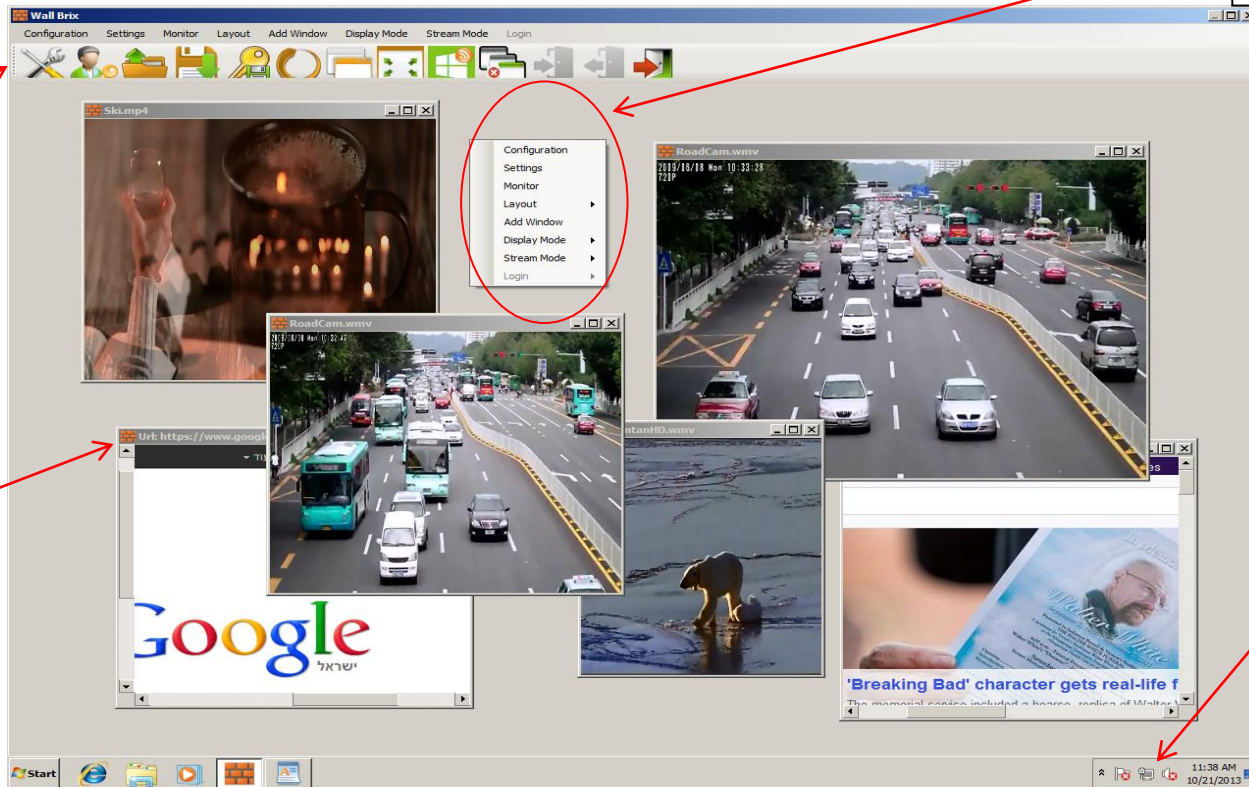
Launching WallBrix

Secured Login to application (user privileges , Active-Directory)
Startup with Default Layout
Grid Utility
Create, save, recall Layouts



Controlling the Wall

- ✓ Local Mouse Keyboard (Setup & Configuration)
 - Toolbar, Popup Menu, Status bar, App menu
 - Shortcuts for Presets
- ✓ Remote Client (Operations via IP Network)
 - Presets, Drag & drop, Source Switching



Tool Bar

App Menu

Popup menu

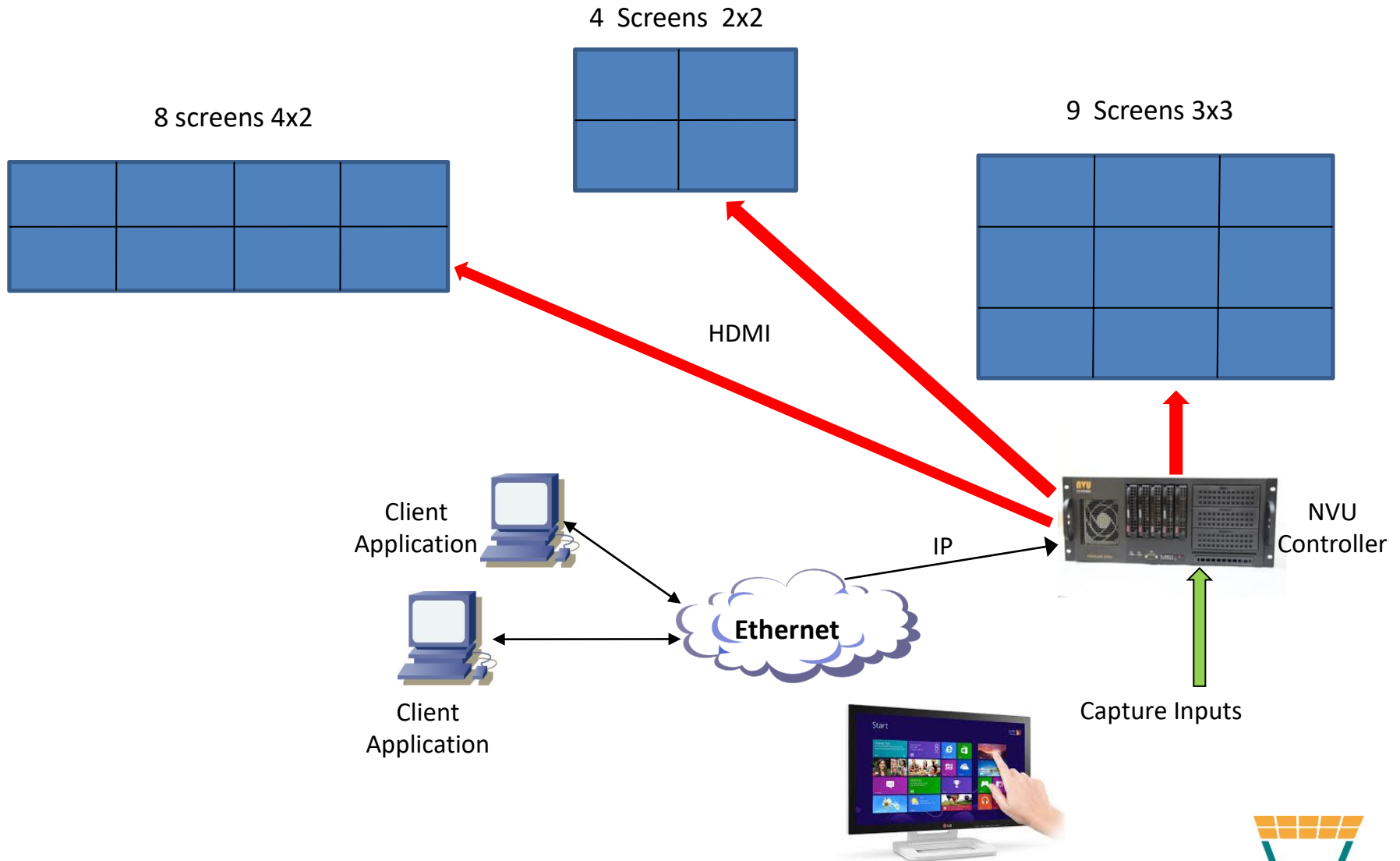
Status Bar

Multi-Wall

Single shared Platform, with dedicated Software that enables connecting and operating multiple video-walls

- ☐ Up to five video-walls (M x N)
- ☐ Each wall is independently managed
- ☐ Each wall have its own layouts / presets
- ☐ The inputs are common to all walls and can be open at any or multiple walls in parallel. (each at different size and location)
- ☐ Each client can connect to one wall at a time
- ☐ WallBrix feature-set is available to each wall

Multi-Wall Example



Competitive Advantage - Focus

- ❑ Extensive, hands-on experience in Command center installations
- ❑ Highly competitive best price/performance
- ❑ Highly integrated using cutting edge CPU & GPU based embedded platform.
 - ❑ Ultra High 4K/8k HDR Resolution
 - ❑ Highest Input & Output port density
 - ❑ Highest throughput – PCIe v3.0 switch
 - ❑ Video encode/decode
 - Hardware acceleration by GPU
 - ❑ Latest Intel 2nd generation of scalable Xeon processors
- ❑ Integrated, built-in (no additional HW), Video over IP support
- ❑ Easy setup and operation with Windows/Android clients
- ❑ Open and flexible solution lowering the Integration and operation costs
- ❑ Flexible for customization and 3rd party integration via API

Talk to us!!

www.nvusystems.com



Avda. Fuente Nueva, 12. 28703 San Sebastián de los Reyes - Madrid - España
Tel.: +34 916588760. Fax: +34 916588769
E-mail: marketing@cartronic.es
www.grupocartronic.com
www.linkedin.com/company/cartronic-group

