DXN5200/5400 Video Wall Controller
Real time display of multi-screen graphics and multi-standard input overlays

> Local/Cat6/Optical video wall
> Connect up to 64 input sources
> Windows architecture
> Custom scaling and mapping of inputs
> Visualisation of IP and CCTV cameras
> Display multiple workstations' desktop image

The Multi-screen Controller

Multi-display visualization is essential part of many supervision, control and digital signage applications, where real-time operation and shared information are critical. We at DEXON Systems collected all the experience from the past 20 years of video wall production and the feedbacks of our customers to design our new generation video wall controller families, the DXN5200 and DXN5400. These units not only control video wall, but also handle up to 64 analogue or digital, SD or HD video inputs, IP Cameras and display workstations' monitor images. The controllers apply multiple Express Crossbars for the full digital display of digital and analogue input sources in real time. The easy-to-use DEXON controllers are characterized by superior design, excellent price/performance balance and high reliability. Experience the most effective workflow with DEXON Systems' video wall controllers!
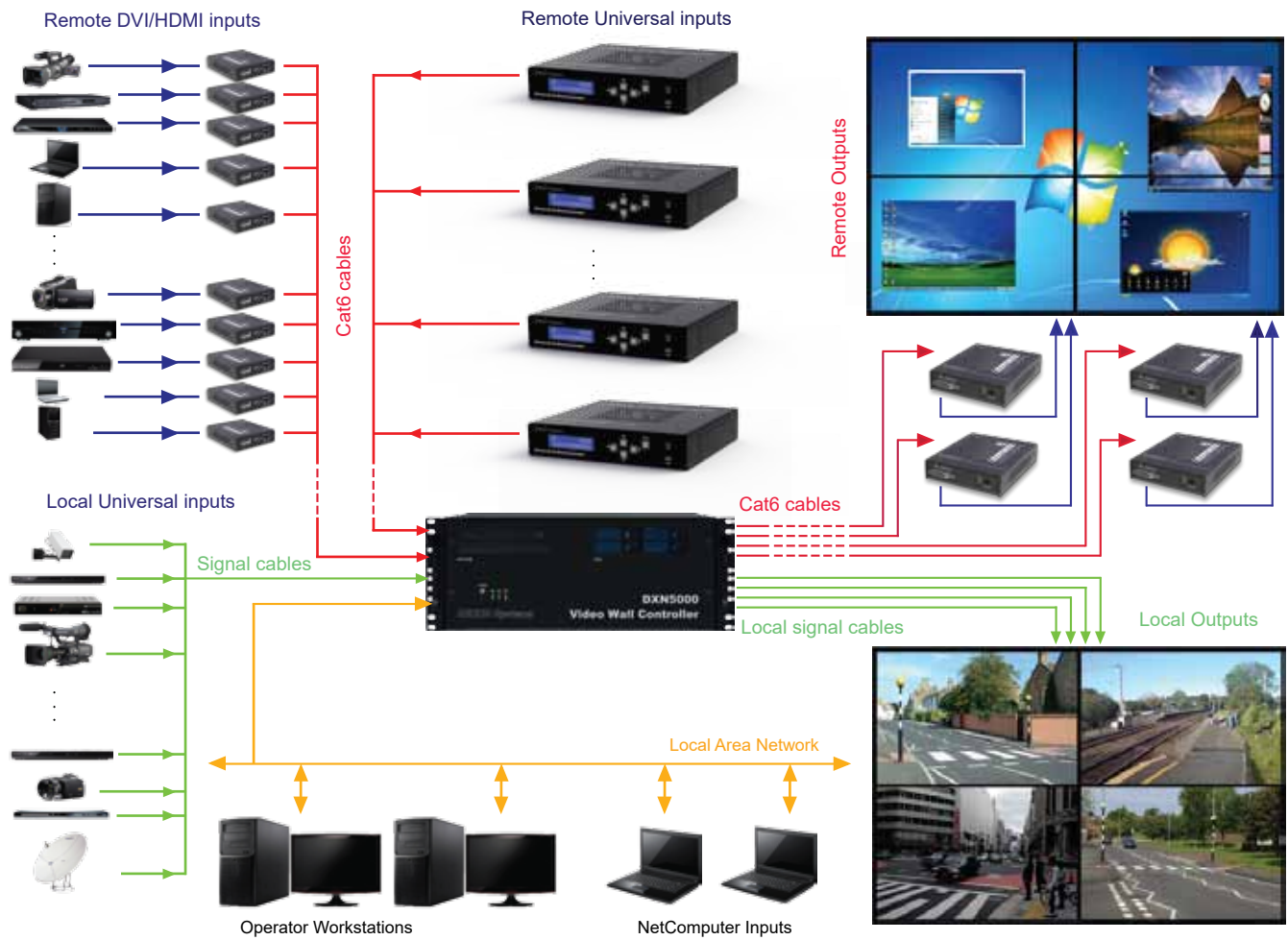
System Characteristics

- Integrated DXN5200/5400 controllers driving multiple local or remote monitors to form one large Microsoft Windows compatible desktop (video wall)
- Real time display of local or remote HDMI, DVI, DisplayPort, SDI, RGB, YPbPr, S-video or Composite video input sources, such as PC, Notebook, video camera, Blu-Ray player, Media-player, etc.
- Visualization of remote workstations' desktop image
- Remote outputs and inputs are handled by Cat5/6 (up to 100m) or Fiber Optic (up to 1600m) technology
- Professional input signal processing and scaling by adaptive de-interlacing, 3D adaptive comb filtering and adaptive 3D noise reduction
- Comprehensive DXWall software system with easy-to-use tools for wall management, video input handling and remote control

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Main Features

Remote DVI/HDMI inputs

Remote Universal inputs

Remote Outputs

Cat6 cables

Local Universal inputs

Signal cables

DXN5000
Video Wall Controller

Cat6 cables

Local signal cables

Local Outputs

Local Area Network

Operator Workstations

NetComputer Inputs

Wall Management

The DXWall® software system offers user-friendly packages to meet display wall operation requirements.

Advanced configuration services facilitate the installation and setup of graphics and video wall properties. The DXWallControl system manages the wall and provides easy-to-use user interface for video/HDMI/RGB input visualization. DEXON offers interfacing of touch panel devices, alarm management, layout control and time-based scheduling. Sophisticated remote tools support network-based operators' interaction and the remote control of video display services. The DXWallControl system provides English, French, Spanish, Polish, Chinese, Japanese, Korean and Russian user interfaces.

Controller Features

Designed for maximum flexibility, DEXON controllers offer customized solutions to meet project requirements.

Platforms
• Windows 7 32 and 64 bit

Control processor
• single or dual Intel Xeon, QuadCore

System Architecture
• PCI Express technology
• Express Crossbar switches

Peripherals
• LAN, HDD, DVD-ROM
• keyboard, mouse

Casing
• 19" rack mount chassis

Redundancy
• dual processor
• dual LAN
• dual power supply

Interface Specification

Output Boards and Signals
• DVI/HDMI output board
  4x DVI/HDMI with HDCP encryption
• Cat output board
  4x HDBaseT outputs
• Fiber Optic output board
  4x SC Standard Optic Fiber outputs

Input Boards and Signals
• Universal input board
  4x analogue or digital SD/HD inputs
• DVI/HDMI input board
  4x DVI/HDMI with HDCP encryption
• Cat input board
  4x HDBaseT inputs to 100m
• Fiber Optic input board
  4x SC Optic Fiber inputs to 1600m
• SDI input board
  4x 3GSDI/HD-SDI/SDI input signals

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