

DXN5400 Video Wall Controller

Real time display of multi-screen graphics and multi-standard input overlays



- > Local/Cat6 video wall
- > Windows 10, Server 2019 architecture
- > Multi-format inputs up to 4K with HDCP
- > Custom scaling and mapping of inputs
- > Display multiple workstations' desktop image
- > Designed for 24/7 operation

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 feedback of our customers to design our new generation video wall controller family, the DXN5400. These units not only control video wall, but also handle multiple analogue or digital, HD or 4K video inputs, IP Cameras and display workstations' monitor images. The DXN5400 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

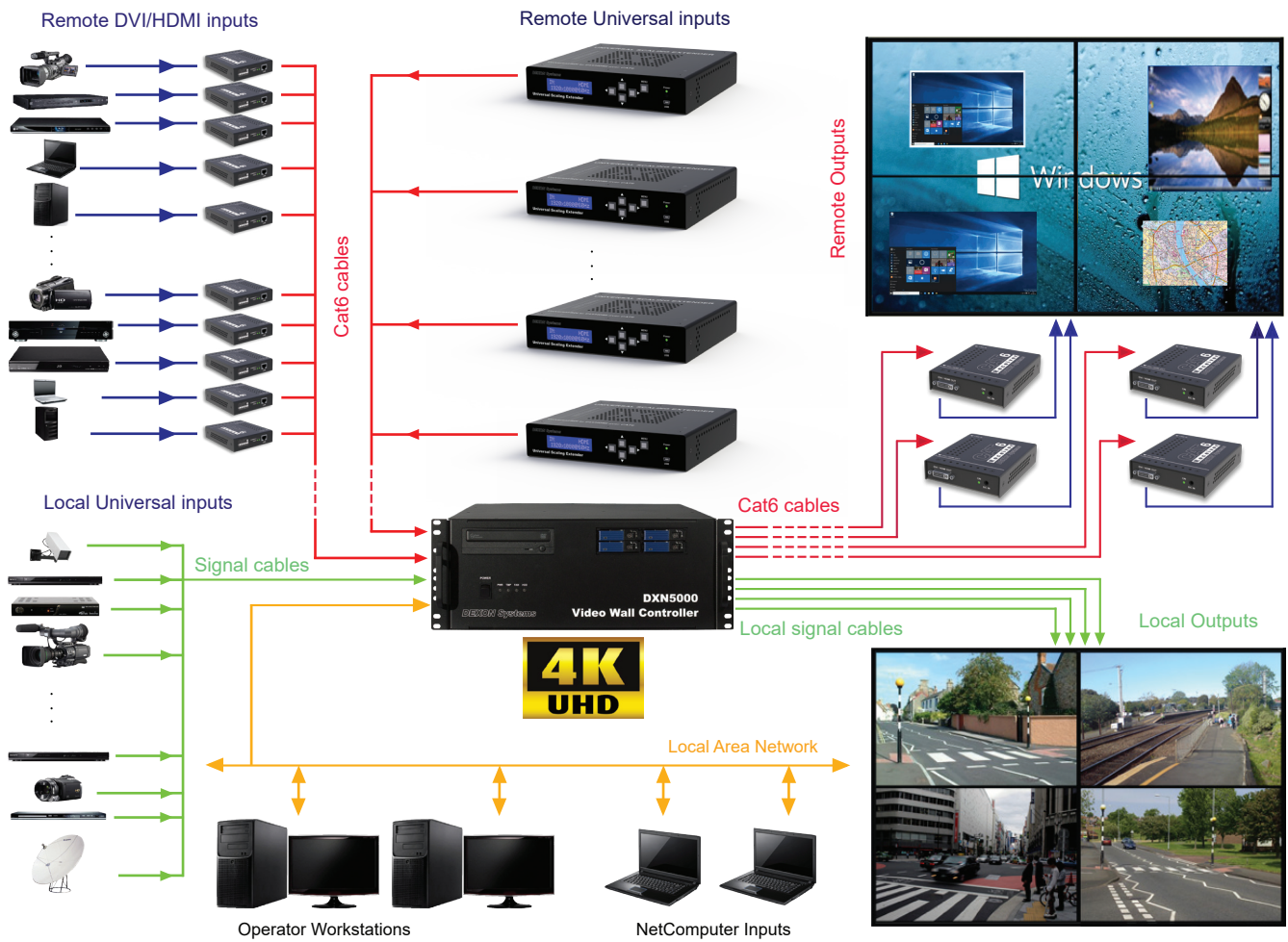
- Integrated DXN5400 controllers driving multiple local or remote monitors to form one large Microsoft Windows compatible desktop (video wall)
- Real time display of local or remote 4K HDMI, DVI, SDI, RGB, YPbPr, S-video or Composite video input sources, such as PC, Notebook, video camera, Blu-Ray player, Media-player, etc.
- Customized configuration built with 16x16, 32x32 or 72x72 frames
- Remote outputs and inputs are handled by direct Cat5/6 (up to 100m) HDBaseT technology
- Full HDCP compatibility for I/O signals
- Audio matrix for routing of embedded or analogue audio inputs and outputs
- Comprehensive DXWall software system with easy-to-use tools for wall management, video input handling and remote control

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Main Features

System Architecture



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 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 10, Server 2019

Control processor

- Intel Xeon

System Architecture

- PCI Express technology
- Express Crossbar switches

Peripherals

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

Casing

- 19" rack mount chassis

Redundancy

- dual power supply
- triple power supply
- dual LAN

Interface Specification

Input Boards and Signals

- Universal input board
 - 4x analogue or digital SD/HD inputs
- 4K HDMI input board
 - 4x 4K HDMI with HDCP encryption
- HDBaseT input board
 - 4x HDBaseT inputs to 100m
- HDMI interlaced input board
 - 4x HDMI, progressive or interlaced
- Composite video input board
 - 16x BNC, composite video
- SDI input board
 - 4x 3GSDI/HD-SDI/SDI input signals

Output Boards and Signals

- DVI/HDMI output board
 - 2x DVI/HDMI with HDCP encryption
- HDMI/HDBaseT output board
 - 2x HDMI, 2x HDBaseT outputs

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