

DXN6400 4K60 Video Wall Controller

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



For more information

- > Local/Cat6 video wall
- > Windows 11, Server 2022 architecture
- > Inputs/Outputs up to 4K60 with HDCP
- > Custom scaling and mapping of inputs
- > Display multiple workstations' desktop screen
- > Designed for 24/7 operation

The Multi-screen Controller

Multi-display visualization is an essential part of many supervision, control and digital signage applications, where real-time operation and shared information are critical. Our dedicated team gathered all experiences of the past 20 years along with our customers' feedback regarding video wall production, which then enabled us to design our new generation video wall controller family, the DXN6400. These units not only control video walls, but also handle multiple analogue or digital, HD or 4K60 video inputs, IP Cameras and display workstations' monitor content. The DXN6400 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

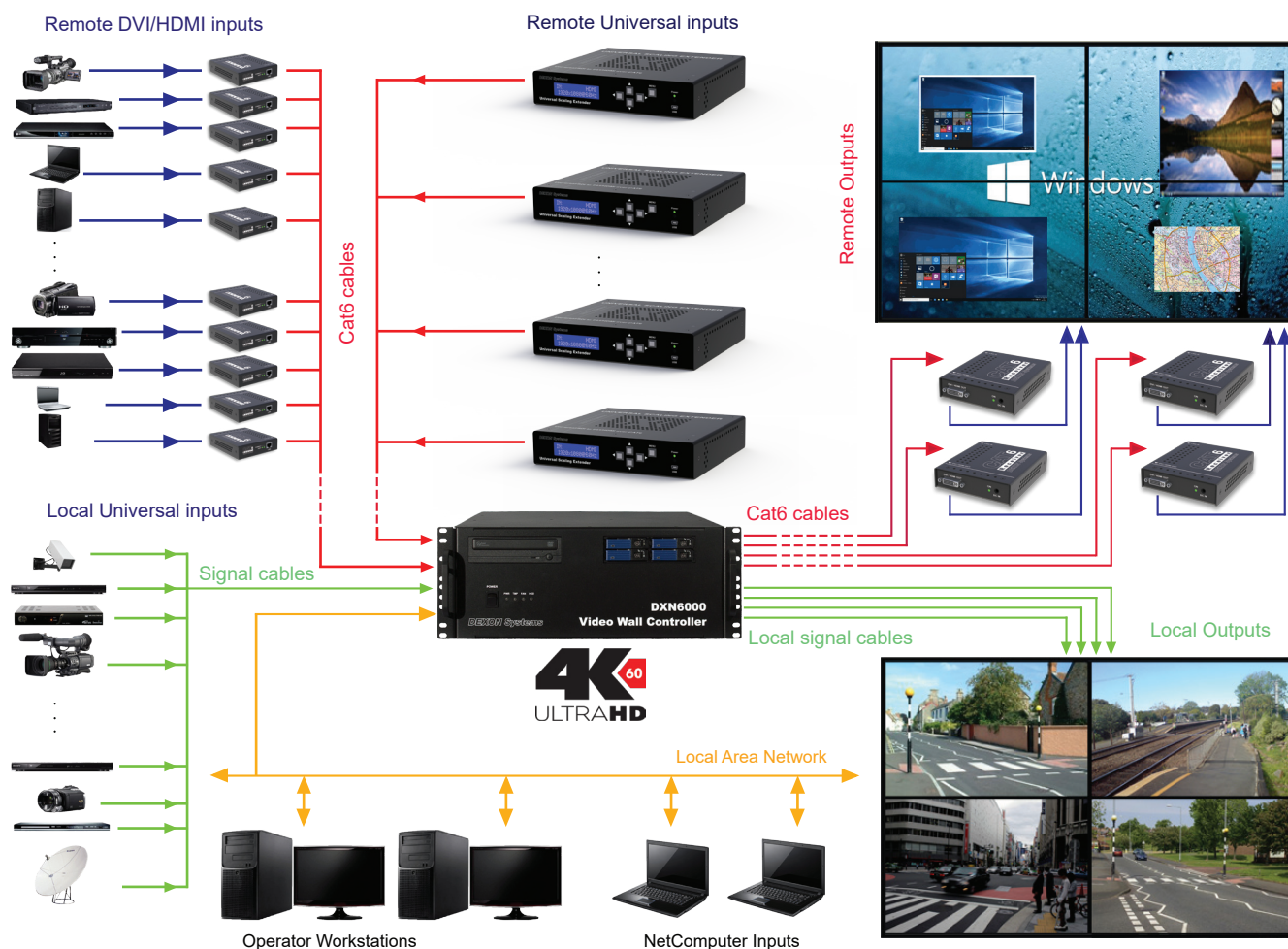
- Integrated DXN6400 controllers driving multiple local or remote monitors to form one large Microsoft Windows compatible desktop (video wall)
- Real-time display of local or remote 4K60 4:4:4 HDMI, SDI, RGB, YPbPr, S-video or Composite video input sources, such as PC, Notebook, video camera, Blu-Ray player, Media-player, etc.
- Customized configuration built with 32x8, 64x16 or 144x36 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 11, Server 2022

Control processor

- Intel Xeon

System Architecture

- PCI Express technology
- Express Crossbar switches

Peripherals

- LAN, SSD, DVD-ROM
- keyboard, mouse

Casing

- 19" rack mount chassis
- 4U, 7U, 14U options

Redundancy

- dual or triple power supplies
- dual LAN

Interface Specification

Input Boards and Signals

- Universal input board
 - 4x analogue or digital SD/HD inputs
- HDMI 4K60 input board 4:4:4 or 4:2:0
 - 4x 4K60 HDMI with HDCP encryption
- HDBaseT 4K60 input board
 - 4x RJ45/HDBaseT inputs to 100m
- IP4 IP Stream input board, RJ45
 - H.264, H.265, MJPEG, MPEG2TTS, NDI
- Composite video input board
 - 16x BNC, composite video
- 12GSDI 4K60 input board
 - 4x 12GSDI/HD-SDI/SDI input signals

Output Boards and Signals

- HDMI/HDBaseT output board 4:4:4
 - 2x HDMI, 2x HDBaseT outputs

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