

DXN-2400 Video Wall Controller

Real time display of multi-screen graphics and video/RGB/DVI/LAN input overlays
DXWall® system for Windows XP, Vista or Windows 7 platforms and networks



The Multi-screen Controller

DEXON's DXN-2400 controllers offer perfect solution for any video wall or control room visualization requirement on Microsoft Windows platform. The LAN based unit controls the wall of multiple screens displaying Windows compatible graphics combined with live video and multiformat DVI or RGB input overlays. The DXN-2400 controllers apply advanced Express Crossbar technology 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. Thousands of controllers operating all over the world for years have proven high MTBF of the products.

The Video Wall

Advanced tools guarantee brilliant, full frame, de-interlaced and comb-filtered Crystal Video visualization. The Express Multiformat inputs process and display DVI, RGB, component video, S-video and composite video signals with unlimited zoom in real time. The input overlay windows can be scaled and positioned freely on the desktop of the wall. Windows can overlap giving the freedom of picture-in-picture display. Perfect quality and full speed of the input windows are guaranteed regardless of the number and size of open video, DVI, RGB windows.

Fields of Application

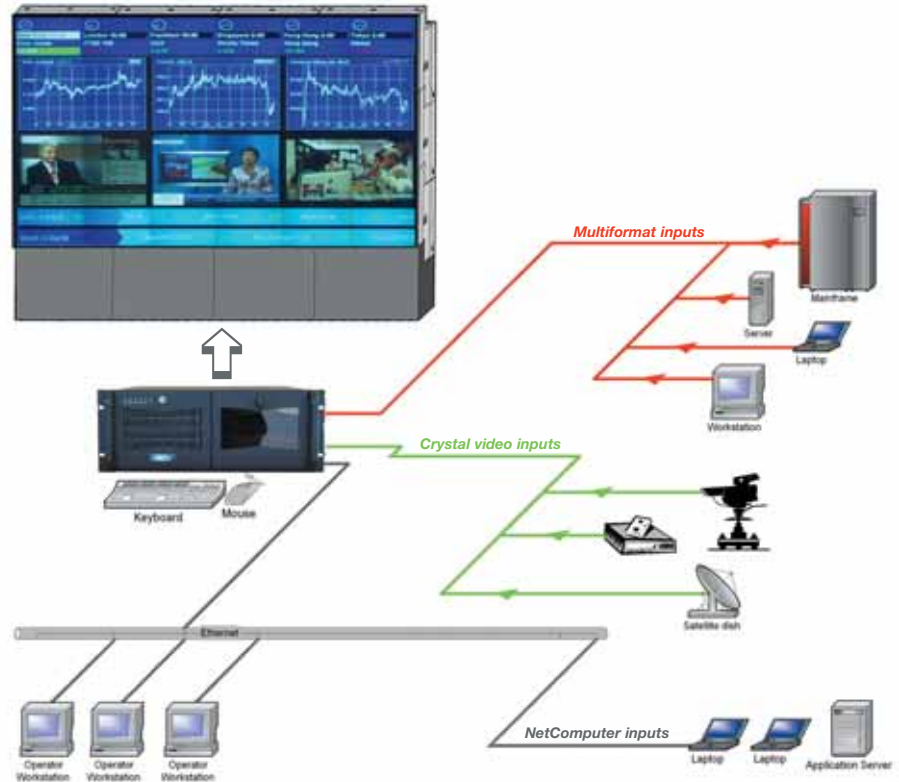
The DXN-2400 system ensures outstanding graphics performance on the wall. The comprehensive DXWall software system provides easy-to-use tools for wall management, video input handling and remote control. The DXN-2400 controllers offer customized solutions to meet various project requirements in the following applications:

- boardroom visualization
- public information displays
- utility supervision
- industrial process control
- telecom control centers
- traffic supervision
- police command centers
- military control systems

DEXON Systems

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- Integrated DXN-2400 controllers drive from 1 up to 45 screens
- Total resolution of the wall is the sum of screen resolutions
- Picture-in-picture visualization of input sources in real time
- Handling of 16 – 64 composite video or S-video, PAL or NTSC inputs
- Handling of 4 – 32 Express Multiformat inputs up to 1920x1080 resolution
- Display of 1 – 32 Swift RGB inputs
- Advanced tools for networked remote operators to interact and control video visualization
- Scenario control for sequenced video/DVI/RGB input display
- Full Windows XP/Vista/7 compatibility
- Latest Intel XEON processor and PCI bus based customized configurations
- Dual processor, dual power supply and multiple network control options
- Cost effective, industry standard components and interfaces
- Housed in a 19" rack mount chassis
- High overall system MTBF
- Superior technical support



DXWall Software System

The DXWall software system offers user-friendly packages to meet control room operation requirements. Advanced configuration service facilitates the installation and setup of graphics and video wall properties. The DXWallControl system manages the wall and provides user interface for impressive video and DVI/RGB input visualization. Full interfacing of touch panel devices through RS-232C or LAN connections. Innovative features include 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, Spanish, Chinese, Japanese, Korean and Russian user interfaces for the wall control.

Controller Hardware

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

Number of screens controlled

- from 1 to 45

Platform

- Windows XP, Vista, Windows 7

Control processor

- single or dual Intel Xeon

System memory

- 1 GBytes – 4 GBytes

Peripherals

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

Casing

- 19" rack mount chassis

Redundancy

- dual processor
- dual LAN
- dual power supply

Graphics Specifications

The graphics controllers utilize up-to-date technology for high-performance and perfect quality visualization.

Graphics processor

- VLSI with 160 MB memory

Output resolution per channel

- 640x480 – 1920x1080

Number of colors

- 256, high color, full color

Output signals

- R, G, B analogue or DVI

Multiformat inputs

- DVI
- RGB
- Component video, YPbPr
- S-video
- Composite video

De-interlacing

- Full frame by hardware

RGB input resolution

- 640x480 – 1920x1080