TransForm NSD-420

Single Display video wall controller

TransForm NSD-420 is a compact video wall controller perfectly suited for monitoring both baseband and networked video sources. It enables customers to capture sources (networked sources, local DVI/RGB inputs, HDMI inputs and analog video inputs) from anywhere, and display them with high resolution 3D images on a video wall in combination. The flexibly configurable TransForm NSD-420 can either be used as a standalone video wall controller, powered by Barco's CMS control room management software, or act as a perfectly integrated display node for a video wall in a networked TransForm N solution.

As a fully qualified platform for Barco's advanced CMS control room management system, TransForm NSD 420 allows organizing display content (including 3D-accelerated) in a smart way to enhance awareness and improve decision-making.

Possibility to integrate into networked visualization system

TransForm NSD-420 can be used as a display controller running all types of Windows 10 based local applications and at the same time being part of a TransForm N networked visualization system, capable of controlling multiple video walls. This offers customers a complete data overview, while providing them with interaction and collaboration possibilities. As such, information can be shared between multiple sites, making crucial information omnipresent throughout your organization and beyond.

Available configurations

TransForm NSD-420 is available in several types of freely configured and pre-configured configurations:

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- As a standalone single display video wall controller, running the full CMS Control room Management system in a single box.

- As a Single Display node in a TransForm N installation, running only the client parts of CMS on the NSD-420, and being part of a centrally managed TransForm N installation.

- As an Application Node in a TransForm N installation, where the graphical output of any Windows applications is transferred over the network to TransForm N Display Nodes.

- Preinstalled CMS control room management software

- Large Windows 10 desktop

- High-end 3D graphics acceleration

- Up to 16 3K-UHD outputs

- High input density

- Universal IP streaming video decoding

- Baseband capture cards for DisplayPort, DVI/RGB, HDMI and analog video inputs

- Local application support

- Latest Intel (R) Core (TM) i7 hex core processor for concurrent application processing and software based media decoding

PRODUCT SPECIFICATIONS	TRANSFORM NSD-420
Processor	Intel(R) Xeon(TM) Processor E5-2620v4 8-core 2.1GHz (max Turbo frequency 3.0GHz)
Memory	32/64/128 GB
Hard disk	2x 480 GB Solid-State Disk SSD (Raid-1), or 2x 1000GB Hard Disk (Raid-1)
Operating system	Windows 10 64-bit IoT Enterprise SAC
Software	Any CMS deployment, CMS Basic pkg is advised for standalone use
Network	2x 1Gb/s LAN
Graphics card	Up to 4 4-channel professional high-performance NVIDIA Quadro-series graphic cards
Output	Up to 16 3K-UHD displays Up to 64 HD displays, using Barco loop-through capable displays
Input	Up to 5x 4ch DVI-I input card (supporting resolutions up to 1920x1200 @60Hz) Up to 5x 2ch DP1.2 input cards (supporting resolutions up to 4096x2160 @60Hz) Up to 5x 8ch AV input cards Up to 4x 4ch HDMI (4xHD) Up to 4x 1ch HDMI (1x4K)
Streaming video standards	H.264, MPEG2/4, MxPEG, MJPEG, V2D, H.263, VNC, ProServer -For all supported codecs see our continuously extended reference list of supported encoders -For supported number of sources see VCORE Check tool
Form factor	4U 19" Rackmount housing
Dimensions	With handle: 482 mm (W) x 177 mm (H) x 522 mm (D) | 18.9 in x 6.9 in x 20.5 in
Weight	19 -27 kg (24 -32 kg incl. packaging), depending on configuration
Power supply	100-240V, 10-5A, 50/60Hz, 2x 800W redundant
Temperature range	0° -40°C | 32° -104°F
Humidity	Max. 80% (non-condensing)
Noise Level	Max. 50dbA (measured at 1m/32.8ft distance at 22°/72)
Compliance	CE, CB, UL, FCC Class A, BIS, KC, CU-EAC, CCC, DoC, RCM Regulatory Model Name: P420_2
Order Information	R983842000 TransForm NSD-420 Single Display video wall controller (configurable)

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Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.

ENABLING BRIGHT OUTCOMES

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