

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:



- 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 4K-UHD outputs
- Suitable for 24/7 operation
- 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**

General specifications	
Network connection	2x 1Gb/s LAN
Noise level (typical at 25°C/77°F)	Max. 50dba (measured at 1m/32.8ft distance at 22°/72)
Network outputs	Up to 16 4K-UHD displays Up to 64 HD displays, using Barco loop-through capable displays
Video inputs	Up to 3x 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) (With HDCP support on HDMI inputs)
CPU	Intel(R) Xeon(TM) Processor E5-2620v4 8-core 2.1GHz (max Turbo frequency 3.0GHz)
Disk drive	2x 480 GB Solid-State Disk SSD (Raid-1), or 2x 1000GB Hard Disk (Raid-1)
Dimensions (HxWxD)	With handle: 482 mm (W) x 177 mm (H) x 522 mm (D) 18.9 in x 6.9 in x 20.5 in
Memory	32/64/128 GB
Regulation Compliance	CE, CB, UL, FCC Class A, BIS, KC, CU-EAC, CCC, DoC, RCM Regulatory Model Name: P420_2
Graphics card	Up to 4 4-channel professional high-performance NVIDIA Quadro-series graphic cards
Environmental temperature	0° -35°C 32° -95°F
Environmental humidity	Max. 80% (non-condensing)
Form factor	4U 19" Rackmount housing
Order Information	R983842000TransForm NSD-420 Single Display video wall controller (configurable)
Supported Codecs	H.264, MPEG2/4, MxPEG, MJPEG, V2D, H.263, VNC, ProServer (with HDCP support on HDMI ports) -For all supported codecs see our continuously extended reference list of supported encoders -For supported number of sources see VCORE Check tool
Power supply	100-240V, 10-5A, 50/60Hz, 2x 800W redundant
Weight	19 -27 kg (24 -32 kg incl. packaging), depending on configuration

Last updated: 21 Jun 2023

© 2018 Barco nv. All rights reserved. Reproduction in whole or in part without written permission is prohibited. All brand names and product names are trademarks, registered trademarks or tradenames of their respective holders. Due to continued innovation, information and technical specifications are subject to change without prior notice. Please check www.barco.com for the latest specifications.