

NEXUS-avs advanced video server



nex-us [nek-suhs] noun

1. a means of connection; joint
2. a connected series or group

NEXUS-avs is an Advanced Video Server with integrated audio, video and graphics capabilities for complete (D)TV channel playout and channel branding solutions.

It implements an integrated high-end playout solution which can be used in conjunction with PubliTronic Cobalt automation, stand-alone operation, or under control by 3rd parties.

Cost-efficiency and modularity is offered to every customer by utilizing a unique "pay for what you use" - model. From simple channel and bug playout, to high-end and feature rich graphics branded playout channels, **NEXUS-avs** offers a fitting solution for a wide range of branding and playout applications.



Key features

- up to 8 SDI in- and outputs
- SD and HD compatible
- integrated clips, text, animations, audio, tickers, crawls, logo's, 2D and 3D effects, DVE's, wss, teletext and subtitles
- multi-channel audio support
- free form templating
- video bypass function
- 24/7 playout
- redundant HD and PSU
- stand-alone, networked or distributed (remote) operation

Typical Applications

- (D)TV channels
- single and multi-channel playout
- downstream graphics branding
- "channel-in-a-box" solution
- SMS/MMS, voting and interactive channels
- tapeless playout

Innovative Hardware

State-of-the-art multi-core processor technology has enabled deterministic and high performance behavior based on 10 years proven technology with the PubliTronic predecessors of the **NEXUS-avs** server. PubliTronic boosts the application of **NEXUS-avs** for integrated playout as a solution for both high-level and low-level playout.

Audio, Video and Graphics server

NEXUS-avs can playout a wide variety of videoclips in SD and HD format. Whether you play segments from larger video clips, a few frames or indefinite loops, multi-channel audio or with Dolby support; you will find the integrated video server functionality is amongst the most versatile servers in the market today.

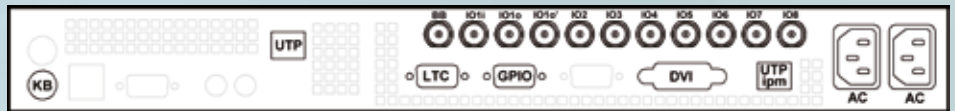
The integrated graphics functionality is capable of rendering and displaying a variety of objects simultaneously in real-time. 2D and 3D effects are now supported through OpenGL alongside highquality text rendering, multiple tickers, animations, stills and bugs. PubliTronic offers free form template design tools for direct control or control by automation suppliers.

In- and output formats

The unique hardware design offers 8 i/o-channels with a configurable functionality. Inputs can be SDI or ASI, outputs can be SD or HD. The ASI functionality offers further integration possibilities and a great cost saving on encoders in a digital distribution environment and allows, for example, regional window programming in existing streams.

Redundancy

NEXUS-avs is designed for broadcast; a solid state disk is incorporated for the OS, redundant dual lead AC power supply and harddisk drives in a RAID1 configuration, provide optimal resilience. **NEXUS IP-manager**, using a separate processor, manages the status and health of the **NEXUS** unit and provides remote management tools for unmanned and remote playout sites.



Technical Details

Clip playback	MPEG2 (PS, TS, long-GOP, I-frame only), D1030, D1050, IMX, DV, Quicktime, AVI, MXF, h263, h264, MPEG4, WMV
Disk capacity	RAID1-500GB (optional 1 TB), solid state disk for OS backup
I/O channels	8x configurable SDI (up to 3 G), ASI
Formats	PAL, NTSC, 720p, 1080i, 1080p
Graphics	OpenGL support
DVE	2D and 3D, multiple
Layers	unlimited
Animations	streaming, multiple
Text rendering	multiple, anti-aliased truetype TTF
Tickers, crawls	multiple
Audio channels	48 kHz - 16 channels (Dolby optional)
Subtitles	optional, closed caption and in-vision
Teletext	optional
Bypass	dedicated fail over input and output
Linux OS	real-time 2.6 kernel
Ethernet	10/100/1G, 10/100 for IP manager
GP i/o	8 channels, input and output
LTC	1 input and 1 output
PC i/f	VGA, keyb, RS232
Size (WxHxD)	484 x 44 x 600 mm / 19" x 1,74" x 23,6"
Weight	max. 15 kg / max. 33 lbs
PSU	Redundant, dual AC, max. 500 VA
Operating environment	10°C to 30°C / 32°F to 86°F
Relative humidity	10% to 90% non-condensing

The basic NEXUS-avs 1U frame is available with a large variety of options to cost-efficiently fulfill a wide range of playout and branding applications.

Contact PubliTronic or your local distributor for more information on NEXUS, Cobalt automation and Indigo technology. We look forward to showing you the exciting possibilities this innovative product can offer your business!

PubliTronic

The Netherlands

Phone: +31 55 360 4344

Fax: +31 55 360 4113

e-mail: sales@publitrionic.com

website: www.publitrionic.com

