

The Most Reliable, Affordable, and Flexible Broadcast Master Control Video Server on the Market

Simultaneous record and playout capabilities:

The NFinity broadcast video server empowers broadcasters to implement a modern file-based workflow with unlimited, expandable storage and easy to use onboard automation and control software.

NFinity is capable of recording and playing out both SD and HD SDI streams from third-party commercial and program delivery systems, without transcoding, re-muxing, or repackaging.

With comprehensive support for external control, NFinity enables stations to automatically sense network triggers and roll to local commercial breaks, improving efficiency and freeing up operations staff to focus on other important tasks.

Flexible format support:

NFinity supports a myriad of formats including AVC H.264, HVEC H.265, MPEG2, MPEG4, AAC, PCM, GXF, MXF, and LXF. With internal up-scaling, downscaling, and cross-conversion, NFinity ensures high-quality broadcast presentations at all times.

Simple graphics functionalities:

Through NFinity, broadcasters can schedule simple graphics effects such as bugs, crawls, banners, animated .gif, text, and layers. In addition, NFinity can be used to roll effects-based commercials and generate revenue through secondary events, such as current time and temperature graphics.

Full control:

NFinity can be controlled locally, remotely, or via its VDCP interface (both serial and network) using any major automation system. A simple manual playlist with configurable loop mode is included with jog and shuttle buttons, play, cue, stop, and jump to time code, providing users immediate control of the video being played. It also supports EAS, VANC, and DTMF triggers.

Scalable, affordable storage:

NFinity provides broadcasters with virtually unlimited storage, giving them room to grow and accommodate additional file-based assets. NFinity is not dedicated to one file system and can directly play any media stored on any accessible file system.

Features:

- Up to four SDI playout channels per box
- Two simultaneous record channels per box
- SD/HD SDI US and International
- AVC/AAC encoding MPEG4 wrapper
- Bugs, banners, bulletin boards, crawls, text, and animation
- Closed caption supported EIA608/708, CEA608/708
- Up to sixteen channels of audio per video
- Multiple directories and file systems
- Frame accurate recording
- Transfer and play material from existing server or archive
- Responsive and accurate jog, shuttle, and jumping
- Low cost of ownership
- Onboard playlist and recorder
- Redundant power and cooling
- Standard RAID-5 storage
- 2000 hours at 8 Mbps
- Full feature GUI per channel
- File-based work flow
- Network and serial VDCP control
- Unlimited expandability
- Supports EAS, VANC, and DTMF triggers
- Simple transitions and source switching options

VIDEO SERVER SPECIFICATIONS

VIDEO

- Max # SD / HD Video Channels per Server
 - 1 input x 3 output, 2 input x 2 output, or 4 output configuration
- Inputs/Outputs
 - 75 Ω SD-SDI (SMPTE 259M) and HD-SDI (SMPTE 292M)
- SD Format Support
 - 525/29.97 NTSC, 625/25 PAL
- HD Format Support
 - 720p 50, 720p 59.94, 720p 60, 1080p 25, 1080PsF 29.97, 1080PsF 30, 1080p 30, 1080i 50, 1080i 59.94
- Codecs
 - SD-MPEG2 and HD-MPEG 2, SD-MPEG4 and HD-MPEG4, H.264, DV NTSC, DVCAM, and DVCPRO
- SD/HD Scaling
 - Up and down conversion to selected output
- Cross Conversion
 - 720p to 1080i (including full screen and pillar box). 1080i to 720p, and configurable cropping on video capture or video playback
- Digital File Support
 - FFmpeg (MPEG-2, MPEG-4)
 - MOV, MPG, MP4, MXF, GXF, LXF, DV, TS

AUDIO

- Embedded Audio Channels
 - 16 channels per input and output, embedded in SD and HD
- Audio Sampling
 - Television standard sample rate of 48kHz at 24 bit
- Codecs
 - Uncompressed PCM Audio, Advanced Audio Coding (AAC), MPEG Audio

BRANDING

- Branding & Graphics
 - Up to 8 independent layers
- Graphics Formats
 - PNG, JPG, TIFF, GIF, BMP, ICO, and others
- Simple animation
 - Supports elementary animation such as crawl bugs, text, banners and animated gif
- Dynamic end-to-end playout
 - Overlay graphics and commercial insertion

REFERENCE

- Sync Input
 - Blackburst in SD, 720p 50, 720p 59.94, 1080i 50, and 1080i 59.94 formats or Tri-Sync in HD format

ANCILLARY DATA

- VANC
 - VANC triggers, capture and playback in the AFD standard using up to 3 lines of video in file - HD RP188
- Closed Captioning
 - EIA-608/708 and CEA- 608/708

STORAGE

- Local Storage
 - Standard 7.2 TB @ RAID-5
- Network Attached Storage
 - 35-152 TB @ RAID 6, with unlimited expandability

AUTOMATION SUPPORT

- Server Serial Control
 - Universal VDCP via SMPTE RS-422 or RS-232
- Server Ethernet Control
 - Universal VDCP over IP
- Graphics Serial Control
 - Universal VDCP via SMPTE RS-422 or RS-232
- Graphics Ethernet Control
 - Universal VDCP over IP

MISCELLANEOUS

- Optional EAS
 - emergency alert system support
- Optional GPI control
 - Provides 8-GPI /8-GPO functions for triggering downstream devices and/or external playlist interactions (Play, Stop, Cue etc.)
- Multi-format playout
 - Supports all popular video and audio formats
- CPU
 - Intel® i7 Six Core
- Power
 - Dual low profile redundant power supply, 650W
- Cooling
 - Redundant fans
- Network
 - Triple GigE NICs
- RAM
 - 32 GB DDR4 2400 Mhz un-buffered DIMM
- Internal Operating System Drive
 - 250 GB M.2 Onboard
- Operating System
 - Microsoft Windows®10 Pro 64-Bit
- Dimensions
 - 5.25" H X 17.5" W X 27.5" D
- Weight
 - 70 lbs (default configuration)

World-class support, 24 hours a day, 7 days a week, 365 days a year