

## CHANNEL(S) IN A BOX

*Versatile Control of Video From Anywhere at Anytime*

NVerzion® CloudNine™ provides all the functionality found in a traditional video server plus the features found in a standard “Channel in a Box,” and expands this to include a cost effective, powerful, and reliable, network-based solution.

With a simple and efficient file-based workflow, CloudNine supports all major codecs and wrappers without any expensive or time delay transcoding, flipping, or re-muxing.

Provided sufficient bandwidth, CloudNine channels can play files stored in multiple sub-directories on any number of storage or file systems. Add an unlimited number of channels without having to relocate material.

CloudNine can be controlled locally, remotely, or with its fully functional VDCP interface (both serial and network), and can be controlled by all major automation systems.

CloudNine is a node on the net, a Cloud Box. It offers file transfer directly from all major commercial and program delivery systems and play-to-air without any conversion. Likewise, move directly from your edit stations to CloudNine where it will automatically sense new material and notify automation.

### **FX, Branding, and Advertising**

CloudNine provides simple easy-to-use effects. Schedule either manually or via automation. Bugs, banners, bulletin boards, crawls, text, and simple animation. Roll commercials or generate revenue through secondary events.



CloudNine provides an elementary on-board play list for manual or emergency control with add, delete, cue, and play - including an optional loop mode.

CloudNine makes a fantastic back-up device for your existing server. Coupled with NVerzion's XPansion™ software, media can be automatically moved from your existing server to the backup without conversion and simul-rolled manually or via automation.

CloudNine is delivered to you in an industrial, 2RU computer with redundant power and cooling. The standard computer comes with three 3TB drives in a Raid 5 configuration, and optionally, up to three 950 GB Solid State Drives (SSD). SSD is the suggested solution for mobile CloudNine boxes.

CloudNine is available in both 2 and 4 ports. Optional RS-422 or RS 232 serial cards and opto-isolated I/O boards.

### **Features:**

- Up to 4 HD playout channels per box
- 2 simultaneous record channels per box
- HD/SD SDI US and international
- AVC / AAC encoding MPEG4 wrapper
- Bugs, banners, bulletin boards, crawls, text, and animation.
- Closed caption play out EIA608/708
- Closed caption record EIA608/708
- Up to 8 channels of audio SAP and multi-language
- 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
- On-board playlist
- Local and automation control
- Redundant power and cooling
- Optional up to 3 TB SSD storage
- Standard 6 TB Raid 5 storage
- Over 1600 hours at 8 Mbps
- Full feature GUI per channel
- File-based work flow
- Network and serial VDCP control
- Unlimited expandability

## VIDEO SERVER SPECIFICATIONS

### VIDEO

- # Video Channels per Card
  - 2 x 10 bit SD/HD Input or output, independently switchable
- Max # Cards per Server
  - 2 Cards
- Max # Video Channels per Server
  - 1 input x 3 output, 2 x 2, or 4 output configuration
- Inputs
  - 75 Ω SD-SDI (SMPTE 259M) and HD-SDI (SMPTE 292M)
- SD Format Support
  - 625/25 PAL, 525/29.97 NTSC
- HD Format Support
  - 720p50, 720p59.94, 720p60, 1080PsF23.98, 1080p23.98, 1080PsF24, 1080p24, 1080PsF25, 1080p25, 1080PsF29.97, 1080p29.97, 1080PsF30, 1080p30, 1080i50, 1080i59.94, and 1080i60
- Codecs
  - \*SD-MPEG2 and HD-MPEG2, \*SD-MPEG4 and HD-MPEG4, \*H.264, DV-NTSC and DV-PAL
- SD/HD Scaling
  - Up and down conversion to selected output
- Cross Conversion
  - 720HD to 1080HD on video capture or video playback

### AUDIO

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

### BRANDING

- Branding & Graphics
  - Up to 2 independent layers
- Graphics Formats
  - PNG, JPG, TIFF, GIF, BMP, ICO and others

### REFERENCE

- Sync Input
  - Blackburst in SD, 720p50, 720p59.94, 1080i50, and 1080i59.94 formats or Tri-Sync in HD format

### ANCILLARY DATA

- VANC
  - VANC capture and playback using up to 3lines of video in file — HD RP188
- Closed Captioning
  - EIA-608 and CEA-708

### STORAGE

- Local Storage
  - 6TB usable storage @ RAID5
  - OR 1 TByte SSD
- Network (Cloud) Storage
  - Accessed via 1 Gigabit Ethernet

### 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

- CPU
  - Intel i7-3770 Quad Core
- Power
  - Dual low profile 820W quiet redundant power supplies
- Network
  - Dual GigE NICs
- RAM
  - 16 Gb
- Internal HD
  - 120 GB SATA SSD drive
- Operating System
  - Microsoft Windows Professional 64 bit
- Dimensions
  - 3.5" H x 17.5" W x 27.5" D
- Weight
  - 70 lbs (default configuration)