



a product of VIDEO TECHNICS, INC.



## apella™ HDX media server...a closer look

Apella HDX is an unprecedented breakthrough in affordable HD video server technology. By providing simultaneous HD-SDI and down-converted SDI, along with Analog I/O, this media server is specifically engineered to meet the needs of emerging HDTV facilities.

The compact 3RU chassis features front-loading hot-swap drive bays that allow internal storage to expand to 8TB with several RAID protection configurations. Virtually unlimited channel I/O can be implemented simply by networking Apella servers together. . Extensive native codec technology, DVCPRO HD, and MPEG-2 up to 300Mb/s, and support for mixed AVI, MOV, and MXF file types, allows media files in the VT database – regardless of SD/HD standard, compression format, or file type – to be played back-to-back from a single output channel.

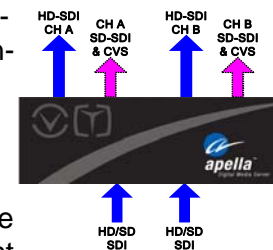
- 1 IN / 1 OUT or 2 IN / 2 OUT per Chassis
- NTSC, PAL, and High Definition Video Standards
- Each Output Provides Simultaneous HD-SDI, SDI, and Analog
- Real-time Downscaling from HD to SD with Center Cut
- 4 AES/EBU and 16 SDI Embedded Audio Tracks per Video Channel
- Switchable Formats Including 1080i, 720p, 525/625 Line
- Extensive Native Codec Support in HD and SD:
  - MPEG-2 (I-Frame), DVCPRO HD, MPEG HD, DVCPRO50, DVSD, DVCAM
- 8TB Internal Raw Storage Standard (optional RAID 5, 6, or 10)
- Mixed HD and SD playback from a single playlist – auto up/down conversion
- Multi-track Audio and Video Timeline Editing (Remote Client Seats Available)
- Import AVI, QuickTime, Avid DNxHD, and DV / MPEG-2 Raw Files
- VT Director and VT Proxy Editor Plus! Software Included (Remote Client Seats Available)
  - Multi-Channel PlayList Control with Auto Ripple
  - PlayList Synchronized in Real-Time with NRCS via MOS Protocol
  - Easy Media Management – Search, Archive, Import, Export
  - Low Resolution Timeline Editing Ready for Immediate Playback
- Batch Media Import and Acquisition with RS-422 VTR Machine Control
- VT Craft Edit Plug-In Available for Lossless File-Based Transfers from NLE
- MOS, VDCP, & VT Ethernet API Automation Support
- Powerful SQL Database Engine for Centralized and Comprehensive Asset Management
- Unique Global Asset ID and User Profiles with User-Defined Security Settings
- Fibre Channel SAN and Dual GigE NAS Compatible
- Pathfire DMG File-Based Interface for News and/or Syndication
- Highly Scalable and Redundant Architecture

ingest · networked storage · collaborative editing · playback · archive

## Apella – Proven IT-Centric Technology

For over a decade, professional broadcasters have relied on cutting edge technology from Video Technics to ingest, edit, and manage media in a cost-effective workflow, designed with open architecture and non-proprietary file formats.

The Apella is a highly scalable, feature-packed media server built on an IT-centric foundation. VT's innovative software and solutions are future-proofed for the distinct needs of the broadcasting industry. Apella is the ideal solution for live broadcast production, master control, transmission, corporate, government, and education environments.



## Apella HDX Technical Specifications

### Application Software

- VT Database Engine
  - local SQL database service
- Apella Media Engines
  - local processing for video and audio
- VT Director (local seat included)
  - multi-channel playlist and record control
- VT Proxy Editor Plus (local seat included)
  - asset management and low res proxy editing
- VT Scheduler (optional)
  - scripted ingest and playout automation

### Timecode I/O

- RS-422 serial ports
- NTP Server Option

### Automation Protocols

- VDCP
- Media Object Server (MOS)
- GPI
- VT Native Ethernet API

### Control and Storage I/O

- 2 10/100/1000 Mbit Ethernet - RJ45 connector)
- 4 2.0 USB ports
- 2 RS-232 serial ports - DB9 connectors
- 8 GPI In and 2 GPI out - DB9 connectors
- RS-422 serial ports
  - 8 ports with DB9 connectors

- Optional SCSI Ultra-320 (LVD) external port
- Optional SAN Port Kit
  - Fibre Channel (optical or copper)
- Optional NAS Port Kit
  - TOE Gigabit Ethernet (copper)

### Database Structure

- MS SQL relational database engine
- 20 metadata fields auto-created for each asset
- 12 user-defined field labels and choices to describe each asset
- 2 Unlimited ASCII text fields per event

### Import Formats

- OpenDML AVI
- QuickTime
- PCM WAV
- Raw MPEG-2 (.MPG)
- Raw DV (.DIF)
- MXF
- Optional PathFire DMG interface – file transfer for either news or syndication

### Export Formats

- OpenDML AVI
- AAF

### Signal I/O

- 1 or 2 multi-rate HD/SD SDI video inputs
- 1 or 2 multi-rate HD/SD SDI video output
- 1 or 2 SDI video outputs
  - (simultaneous HD and center cut SD output)
- 1-in/1-out analog component or Y/C or CVBS video per SDI channel

- 2-in/6-out unbalanced AES/EBU audio channels
- 8 SDI embedded audio I/O channels
- 2-in/6-out balanced analog audio

- Analog black burst reference input
  - horizontal and vertical phase adjustment
- Lock to incoming SDI signal
- Internal reference clock

### Compression

- SD codecs
  - DV, DVCAM, DVCPRO, and DVCPRO 50
  - MPEG-2 I-frame YUV 4:2:2
  - MPEG-2 IBP (decode only)
- HD codecs
  - DVCPRO HD
  - MPEG-2 I-frame YUV 4:2:2
  - MPEG-2 IBP (decode only)

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