



a product of VIDEO TECHNICS, INC.



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

Apella SDX is revolutionary price breakthrough for an SD video server with SDI and analog I/O connectivity that supports a mixed media database of DV and MPEG-2 files, and offers up to two inputs or four outputs simultaneously from a single chassis. Virtually unlimited channel I/O can be implemented simply by networking Apella servers together.

Specifically engineered with more storage capacity and reliability, this Apella model presents a new benchmark for performance and value. The compact 3RU chassis features front-loading hot-swap drive bays that allow internal storage to expand to 8TB with several user-configurable RAID protection options. Extensive native codec technology allows media files in the VT database – regardless of compression format – to be played back-to-back from a single output channel.

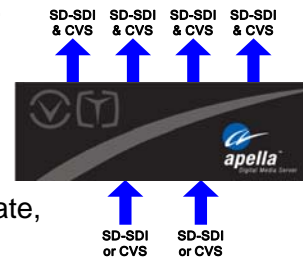
- 1 IN / 2 OUT or 2 IN / 4 OUT per Chassis (6 Simultaneous SD Streams of Media In and Out)
- 4 AES/EBU and 16 SDI Embedded Audio Tracks per Video Channel
- 525i, 625i at 25 and 29.97 fps
- 16:9 and 4:3 Aspect Ratio Support
- Full VBI Capture and Playback
- DVCAM, DVCPRO, DV25, and MPEG2 MP@ML (I-Frame and IBP)
- Scalable to 8TB Raw Internal Storage (Optional RAID 5, 6, or 10)
- Multi-track Audio and Video Timeline Editing (Remote Client Seats Available)
- Import AVI, QuickTime, DV and MPEG-2 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
  - Realtime Media Logging with Metadata Insertion
- Optional Batch Media Import and Acquisition with RS-422 VTR Machine Control
- VT Plug-In for Adobe Premiere Pro Available for Direct Exports without Transcoding
- Import Final Cut Pro QuickTime DV Files or any Most Popular NLE files
- 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
- Network Streaming Fibre Channel SAN Port or GigE NAS Port Option
- Fibre Channel SAN or Dual GigE NAS Options
- Highly Scalable and Redundant Architecture – No Single Point of Failure

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 SDX 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

### Timecode I/O

RS-422 serial ports  
NTP Server option

### Automation Protocols

VDCP  
Media Object Server (MOS)  
GPI  
VT 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

Optional RS-422 serial ports  
8 ports with DB9 connectors

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 DV  
PCM WAV  
Raw MPEG-2 (.MPG)  
Raw DV (\*.DIF)  
MXF

Optional PathFire DMG Transfer - News or Syndication

### Export Formats

OpenDML AVI  
AAF  
AVI, .DV

### SD Signal I/O

NTSC or PAL  
2 or 4 SDI and, Y/C, or component or CVBS outputs  
1 or 2 SDI, Y/C, or component or CVBS inputs

SDI contains 8 embedded audio I/O channels per video  
2 in/4 out unbalanced AES/EBU per video  
2-in/4-out balanced analog audio channels per video

Analog black burst reference input  
- horizontal and vertical phase adjustment  
Internal reference clock  
Genlock to SDI input

### Compression

DVCPRO, DVCPRO, DV, DV25, DV50  
MPEG2 MP@ML (I-Frame and IBP)  
MPEG2 4:2:2 P@ML (I-Frame)

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