



Video Technics Apella™ LCS

Apella LCS is a revolutionary price breakthrough for an SD video server with analog and digital I/O that supports a mixed DV/MPEG-2 media database and offers up to three bi-directional channels for ingest *or* playout.

Server is housed in a compact 3 RU video server with dual core CPU technology, 2GB RAM, GigE dual Ethernet ports, 24X CD-RW/DVD ROM, and dual hot-swap power supplies. Internal storage supports up to 6TBs with RAID options. System includes Windows XP Pro, VT Database engine, and Apella LCS server media engine. Supports up to three simultaneous streams of video with audio as input or output channels per chassis; each channel provides analog and SDI video I/O, up to 8 embedded audio I/O streams, 2in/6out AES/EBU channels, and, analog genlock.

- 3 Analog or SDI Inputs, or 3 Analog and SDI Playout Channels (3 Simultaneous Streams of Media In and/or Out)
- Multi-track audio and video timeline editing (remote client included)
- Import AVI, QuickTime, and MXF DV and MPEG-2 files
- VT Director Software Interface
 - Instant Clip Keyboard Recall
 - Multi-Channel PlayList with Auto Ripple
 - Realtime Media Logging with Metadata Insertion
- DVCAM, DVCPRO, DV25
- MPEG2 MP@ML I-Frame (record and playout) and IBP (playout only)
- Analog and SDI inputs and Outputs
- Scalable to 6 TB RAW Internal Storage (optional RAID 5, 10, or 6)
- SDI Embedded & AES/EBU Audio
- Batch Media Acquisition with VTR machine control option
- Adobe Premiere Pro Plug-In Available for Direct Exports without Transcoding
- Import Final Cut Pro using QuickTime Files or any NLE that Supports OpenDML AVI
- MOS, VDCP, & Apella TCP I/P Automation Support (optional RS-422)
- Powerful SQL Database Engine Provides Centralized and Comprehensive Asset Management
- Unique Global Asset IDs and User Profiles with User-Defined Security Settings
- Network Streaming Fibre Channel or GigE Optional Support
- PathFire DMG File-Based Interface for News and/or Syndication



Apella – Proven IT-Centric Technology

For over a decade, professional broadcasters have relied on the cutting edge technology from Video Technics for producing, manipulating, and managing multi-purpose media in a cost-effective workflow, using off-the-shelf components with non-proprietary file formats.

The Apella is more than a general ingest and playout server. This networked and scalable product is built on a solid IT-based foundation with standard networking components that along with VT's innovative software are future-proofed for the distinct needs of the broadcasting industry. Built with flexible and intuitive interfaces, Apella is the ideal, full-range solution for live broadcast production, master control, transmission, corporate, government, and education environments.

Apella LCS Technical Specifications

Application Software

- VT Database Engine
 - Local SQL database service
- Apella LCX Engine
 - Local processing for video and audio
- VT Director
 - Multi-channel playlist control client
- VT Proxy Editor
 - Asset management and remote editing client
- VT Scheduler
 - Automated ingest and playout (option not included)

Timecode I/O

- TCP-IP Ethernet
- Optional RS-422 serial ports
- Optional LTC/VITC input (for VT Scheduler)

Automation Protocols

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

Control and Storage I/O

- 2 10/100/1000 Mbit Ethernet - RJ45 connector)
- 2 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 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 DV
- PCM WAV
- Raw MPEG2 (*.MPG)
- Raw DV (*.DIF)
- MXF with VT XDCAM Browser

Optional PathFire DMG Interface – File transfer for either News or Syndication

Export Formats

- OpenDML AVI
- AAF

SD Signal I/O (per channel)

- SDI and analog input/output (NTSC or PAL)
- SDI contains 8 embedded audio I/O channels
- 2 in/6 out unbalanced AES/EBU
- 2 in/6 out balanced analog audio
- 2 unbalanced analog monitoring output
- Analog black burst reference input
 - Horizontal and vertical phase adjustment
- Internal reference clock

Compression

- DVCPRO, DVCPRO, DV, DV25
- MPEG2 MP@ML (I-Frame) (playout only)