

SAMMASOLO



SAMMASOLO is a patented migration process designed to provide archive-quality migration of film and videotape content to multiple file formats in one single pass. This automated method of migrating analog and digital content to digital files preserves the legacy of archives and brings content out of retirement.



SAMMASolo offers an ease of use which flows seamlessly from accessioning your content with SAMMAprep, to cleaning your content with SAMMAclean, followed by migrating your content with SAMMASolo. Front Porch Digital's SAMMA solution offers a polished workflow which considers every aspect of a migration and consistently meets each archive's needs with a specialized solution.

PREPARE

The initial step in SAMMA's total workflow solution is SAMMAprep, a unique accessioning workflow which includes assigning a specific barcode to each asset, and selecting migration templates which can be applied in batches or per asset. Database ingest of previously existing library catalogs may also be ingested during the prep phase. SAMMAprep supports 1D and 2D barcode formats. Accessioning content prior to migration increases the speed and success of the migration workflow.

CLEAN

Tapes of unknown origin and storage conditions may cause migration problems. Cleaning the tapes can mitigate and improve migration success. SAMMAclean, available in U-Matic, Betacam, and VHS formats, gently removes particulate deposits and corrects abnormal tension and packing issues, while collecting metadata related to cleanliness, reflectivity, and tensioning. Customizable quality thresholds can be set to determine the pass/fail criteria for the tapes. As an optional second step in the total workflow solution, SAMMAclean provides archival-quality cleaning at 1/10th the typical VTR tension, while simultaneously collecting videotape health related metadata to an open XML format, all at faster than real time speeds.

MIGRATE

SAMMASolo is the heart of the migration process. The system offers a unique solution which not only reduces the need for technical operators, but also combines multiple migration steps in one single migration pass. SAMMASolo simultaneously creates multiple digital files, including proxy, for quick review; mezzanine, variations for most editing and playout applications; and a lossless preservation quality archive in JPEG2000. There is broad flexibility in creating output migration templates, selecting the specific formats that address the workflows in that specific environment, or specifically for a particular library of tapes. An unlimited number of templates can be created and used across multiple migration projects.

Output files are stored locally on the SAMMASolo cache disk and can be passed through using the FTP gateway to any destination, or can be transferred to DIVArchive for storage, access and repurposing.

ANALYZE

During migration, SAMMASolo captures crucial metadata related to migration success through an analysis engine which measures an array of critical signal parameters. The thresholds on these parameters are set by the user and determine the pass/fail standards for the library. The output data can then be analyzed using the SAMMAmetadata viewer. Operators can quickly identify any migration errors and make a determination about further required actions.



VIEW

As part of the migration solution, SAMMASolo migrations can include a lossless preservation quality JPEG2000file. Front Porch Digital offers a robust JPEG2000 Player, SAMMAplayer, which is included as a software player on SAMMASolo and publically available as a free player on the Front Porch Digital website. Optionally offered is a hardware version PCI codec for a Windows PC (XP or better) for broadcast-quality output with embedded multichannel audio.

SCALE

SAMMASolo has a unique non-technical design and operation which allows library staff to control up to eight networked SAMMASolos through one interface. Either through tiered graphic interfaces on one SAMMASolo, or connected to a KVM switch, SAMMASolo is capable of meeting the specific migration need with rapid interchangeability and a proven and polished workflow. For those libraries with an extensive migration need, SAMMArobot is available to completely automate the migration process.

SERVICE AND SUPPORT

The team at Front Porch Digital not only provides thorough pre-sales support in assisting with designing workflow solutions. Customer Service from Front Porch Digital is top-rated by customers. 24 x 7 support is provided and our remote access diagnosis helps quickly identify issues and provide the necessary solution.





TECHNICAL SPECS

SUPPORTED TELEVISION STANDARDS

NTSC, PAL, PAL-N, PAL-M

REPRESENTATIVE TAPE FORMATS

2" Quadruplex
1" Type A, B or C
3/4" U-Matic
Betacam, SP, IMX, SX, Digital Betacam
VHS, S-VHS
Video-8, Hi-8
DV, DVCPRO
DVCAM

SERIAL VTR CONTROL

Sony 9pin RS422 Protocol for source vtr (1)
Sony 9pin RS422 Protocol for record vtr (3)
Firewire
GVG AMP protocol over Ethernet

VIDEO / AUDIO INPUTS

SDI; CCIR 601 AES/EBU audio 4 ch 16 bit PCM
Analog Composite CVBS
Analog Component Y/Pb/Pr
Y/C
RF carrier level (U-Matic only)
4 channel balanced analog audio

VIDEO / AUDIO MONITOR OUTPUTS

SDI CCIR 601 AES/EBU audio 4 ch 16 bit PCM
Composite video
Analog Component Y/Pb/Pr
Y/C

TIME CODE INPUTS

LTC
VITC
SDI

SIGNAL PROCESSING & ANALYSIS

RF Dropout Compensation (U-matic only)
Full Frame Synchronizer
Time Code Generator
Signal Analyzer
Digital Comb Filter
Auto Gain Control-AGC
Auto Chroma Control-ACC
Chroma Transition Improvement-CTI
Digital Noise Reduction

COMPUTER INTERFACES

Analog VGA output—HD15F 15-pin connector
Digital VGA output—DVI-D
3.5mm stereo audio out (Proxy monitor)

NETWORK INTERFACE

2—10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector)

MULTIPLE CHANNELS

Up to 8 SAMMA solo channels may be controlled from one SAMMA solo.

STORAGE

Internal Cache - 2 TB RAID 0 array

STANDARD PERIPHERALS

Full-size 102-key Keyboard
2-button mouse
LCD Monitor

OPERATING SYSTEM

Windows XP/7

OUTPUT FILE FORMATS (others available)

JPEG2000—8/10 bit J2K encoding in MXF container
Reversible 5x3, Irreversible 5x3 / 9x7, lossless or lossy
SDI output (CCIR 601) with embedded audio, plus 4 AES outputs
MPEG 1, MPEG 2, MPEG 4/H.264
Adobe Flash, Windows Media WMV, AVI, MXF, IMX D10 MXF, Quicktime®

OUTPUT – METADATA

XML—generated metadata file with system configuration (encoder settings etc.), ingest/migration results (logs, video file names and locations etc.), and observations from the SAMMA Analysis Engine™ for every frame of video

SAMMAprep

Barcode Scanner, Barcode Printer, Software

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SAMMA solo