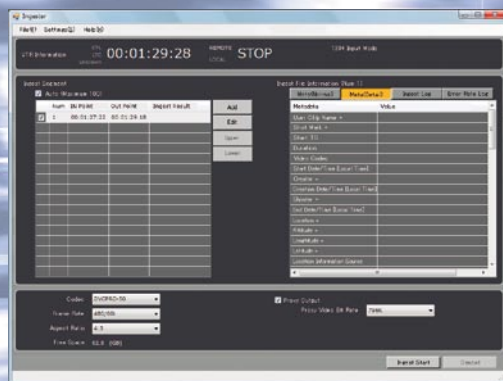
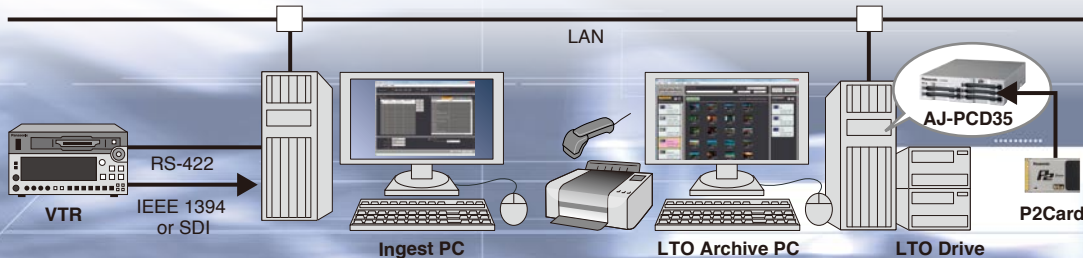
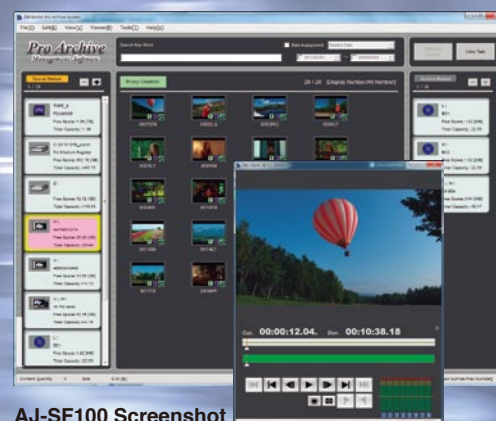


Preliminary



AJ-SF110 Screenshot
(under development)



AJ-SF100 Screenshot
(Under development)

Archives P2, AVCHD*¹ and VTR Footage*² onto LTO, and Enables Meta Searches, Direct Playback and Partial Retrieve from Archived Files

AJ-SF100 and AJ-SF110 software bring intelligent archive solutions to the P2 workflow. Using large-capacity, high-speed-transfer Linear Tape-Open (LTO) media, they let you play and retrieve selected segments without having to replicate the LTO media to a hard disk drive (HDD).

They support the ingestion of all P2 files, AVCHD files*¹ and VTR footage. *² Plus, in addition to LTO, they can use Blu-ray Disk (BD)*¹ and HDD as storage media, thus allowing the configuration of a flexible system with advanced functions.

AJ-SF100 LTO/BD*¹ Archive Software

AJ-SF100 software is installed onto a PC connected to an LTO drive, BD drive*¹ and removable HDD. It lets you archive, search, retrieve and play all P2 files and AVCHD files.*¹

- Proxy data can be generated and metadata can be edited while archiving. Content can be searched easily by using metadata and proxy video.
- Video clips archived on LTO media can be directly played back.
- Any desired video segment can be selected and copied to another file. The video segment can be specified with IN/OUT marks added during playback.

AJ-SF110 Video Ingest Software

This software converts VTR footage (HD/SD) to MXF files via an IEEE 1394*³ interface for AJ-SF100 archiving.

- VTR materials recorded with DVCPRO, DVCPRO 50 or DVCPRO HD systems can be converted to files, without encoding, via the IEEE 1394 interface.
- Video input via SDI terminal can be converted to a P2 file. SD video is converted to DVCPRO or DVCPRO 50, and HD video can be converted to DVCPRO HD or AVC-Intra (50 or 100 can be selected).
- Metadata can be added. VTR conversion footage can also be input with new metadata.
- By linking with the AJ-SF100 LTO/BD*¹ Archiving Software, the video ingest software ensures smooth previewing, metadata editing and archiving.

*¹: Future compatibility planned. *²: Requires ingesting by AJ-SF110. *³: Supports only HD: DVCPRO HD, SD: DVCPRO 50/DVCPRO/DV. HDV input and MPEG-TS input are not supported.

Specifications

AJ-SF100 LTO Archive Software

[Functions]

- Video loading: P2/AVCHD files*1, P2 Card/HDD/SD Card
- Metadata: Editing, input, proxy video generation
- Archiving format:
 - OP-1a format: Saves to LTO4 or LTO5
 - P2 / AVCHD format: Saves to HDD or BD*2
- Search, play: Data Base metadata search, LTO direct playback, proxy playback, copy segment selection
- Restoration: P2 data restoration, selected segment restoration, LTO duplication

*1: Future compatibility with AVCHD files is planned.

*2: Future compatibility with BD drive is planned.

[Hardware Required for System Configuration]

PC, P2 drive, Storage device such as LTO drive, BD drive*, P2 drive or HDD

*Future compatibility planned

[Software Required for System Configuration]

SQL Server 2008 Workgroup Edition

[Operating System]

Windows 7 Professional SP1 64 bit (English)

[Recommended Environment]

- CPU: Xeon X5670 2.93 GHz or faster
- Main RAM: 8 GB
- A PC operation confirmed by Panasonic: Hewlett-Packard HP Z800 Workstation

AJ-SF110 Video Ingest Software

[Functions]

- Ingest: Video ingesting via IEEE1394 or SDI
- Convert: Converting the footage to DVCPRO, DVCPRO 50, DVCPRO HD, AVC-Intra 50 or AVC-Intra 100 in P2 file format.
- VTR control: IN/OUT points are specified via RS-422 remote for loading.
- VTR error rate monitoring record (via RS-422 Remote)

[Hardware Required for System Configuration]

PC, HD/SD SDI board, HDD drive

[Operating System]

- Compatible OS: Windows 7 SP1 Professional 64 bit (English)

[Recommended Environment]

- CPU: Xeon X5670 2.93 GHz or faster
- Main RAM: 2 GB
- A PC operation confirmed by Panasonic: Hewlett-Packard HP Z800 Workstation

Reference Data

Recording Time per LTO (1.5 TB) Tape Recording Time per BD (50 GB) Disc*1

	Codec	Rec. Time		Codec	Rec. Time
SD	DVCPRO	Approx. 96 hours	SD	DVCPRO	Approx. 3 hour 20 min.
	DVCPRO 50	Approx. 48 hours		DVCPRO 50	Approx. 1 hour 40 min.
HD	DVCPRO HD	Approx. 24 hours	DVCPRO HD	Approx. 50 min.	
	AVC-Intra 50	Approx. 48 hours	AVC-Intra 50	Approx. 1 hour 40 min.	
	AVC-Intra 100	Approx. 24 hours	AVC-Intra 100	Approx. 50 min.	

*Approx. 180 hours per LTO (1.5 TB) tape or approx. 6 hours per BD (50 GB) disc can be archived in the case of AVCHD (compatibility planned, in HG mode: approx. 13 Mbps).

*1: Future compatibility planned.

An Example of LTO/BD* Archiving System Configuration

Hardware/Software	Units	Remarks
LTO Archiving Software	1	
PC (Work Station)	1	
BD Drive*	1 or 2	
LTO5 Drive/SAS HBA	1 or 2	
RAID Drive	1	with RAID card
Printer	1	for barcode/BD-R* label printing (using printable media)
Bar Code Reader	1	for media management (USB I/F, keyboard connecting type)

*Future compatibility planned.

Comparison of LTO and BD* data storage media

	LTO5	BD-R*
Capacity	1.5 TB	50 GB
Transfer Speed (Maximum value)	140 MB/s = 1,120 Mbps	216 Mbps (half to write)

*Future compatibility planned.

Example of P2 ingest system configuration

Hardware/Software	Units	Remarks
Video Ingest Software	1	
HD/SD SDI board	1	
RAID Drive	1	with RAID card
PC (Work Station)	1	with IEEE 1394 board

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[Countries and Regions]

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JQA-0443



Factories of Systems Business Group have received ISO14001:2004-the Environmental Management System certification. (Except for 3rd party's peripherals.)