

SAT AI AutoIngest —

Efficiently ingesting Panasonic P2 clips and metadata to your Avid environment

SAT AI AutoIngest is family of products designed to transfer file based media, with metadata, captured on Panasonic P2 devices to Avid Unity/ISIS or directly to an Avid editor's local storage.



Using NL Technology's SAT AI AutoIngest technology, users can move Panasonic P2 media and its accompanying XML metadata from the P2 card to Unity storage or a local editor's hard drive, creating Avid clips, without using an Avid editor to import. SAT AI AutoIngest is offered as a turnkey system, with all of the necessary components to connect directly to the Avid Unity/ISIS or as one of two software-only solutions to meet specific site requirements and budgets.

The transfer of the digital media and metadata can begin sooner and faster than ever before—even from a remote location. Begin sooner because there is no waiting for an edit suite and faster, because our multi-tasking architecture reads from the P2 card and transfers to Unity simultaneously. Once the transfers are complete the user can clear the media off the P2 card(s), thus allowing their reuse in the field. AutoIngest lets the user automatically transfer media as soon as the P2 card is inserted and mounted by the ingest computer, without intervention. Users also have the ability to assign and customize metadata before or after transfer. Clips can be tracked, sorted, and organized simultaneously during ingest. During the clip-based transfer, AutoIngest displays video clips with head frames, proxy video (if available) and all metadata provided by the Panasonic camera.

AutoIngest provides simple and fast ingest to an Avid Unity workgroup environment by automatically converting Panasonic P2 file based media and enhanced metadata to Avid compliant MXF media. The software can quickly assign useful clip names with the AutoIngest "Batch Edit" function or automatically use the photographer defined clip name (title1) entered in the P2 camera. Clip quality status, if set, is built into the metadata information sent to the Avid so that the editor can quickly find clips that the photographer has marked as important.

AutoIngest provides the next level of flexibility, with the ability to store video assets to any catalog within the Avid Interplay or MediaManager environment.

The Avid Web Services tools are used to perform the catalog and head frame check-in.

SAT AI AutoIngest not only improves the ingest process but it improves efficiencies at the editing station as well. Using a dedicated machine for ingest frees up editing resources for their intended purpose, editing. Faster transfer to the editing station gives editors more time to work and collaborate among peers. Ingested digital media arrives with complete metadata, allowing assets to be searched and shared as soon as they arrive. A simplified UI minimizes labor required to ingest.

SAT AI AutoIngest Configurations:

SAT AI AutoIngest Server

SAT AI AutoIngest Server is a high speed integrated hardware and software solution designed to transfer media directly to your Avid Unity ISIS shared storage. This network attached turnkey solution comes pre-configured with SAT AI AutoIngest software, Avid TransferManager™ server and Avid web services allowing seamless integration into your existing workgroup environment. This solution is ideal for users who do not currently have a TransferManager server or who want to bypass their existing TransferManager server and connect directly to their ISIS system. High speed network interfaces, high speed storage and direct connection to Avid Unity ISIS guarantee maximum ingest performance. Terabytes of hardware RAID 5 storage, redundant power supplies and redundant fans ensure your data is protected.

SAT AI AutoIngest

SAT AI AutoIngest is a software only solution designed to provide network attached ingest to your Avid Unity MediaNet or ISIS shared storage. SAT AI AutoIngest runs on an existing Windows XP workstation and connects to Avid Unity as part of a local workgroup through your existing TransferManager server.

SAT AI AutoIngest Solo

SAT AI AutoIngest Solo is a software only solution designed to ingest media directly into your editing workstation's media storage folders. SAT AI AutoIngest Solo runs locally on your stand alone Avid Editor and provides seamless integration with MediaComposer or NewsCutter bins without the need for Transfer Manager.

SAT AI AutoIngest Features:

Metadata Ingest

SAT AI AutoIngest ensures that ALL metadata generated by the Panasonic P2 camera or deck is transferred to the Avid environment and mapped to standard fields for use in the Avid bins. Metadata includes all MXF and XML data generated by the camera as well as any customized metadata added with AutoIngest using the easy to use graphical interface. Custom metadata enables the assignment of meaningful clip names or new column based information that the photographer wants to add during acquisition or during ingest. As an example, the standard clip number assigned by the P2 camera can be replaced with a meaningful clip name. This can be done by setting the “clip name” field in the P2 camera or by editing the clip name value in the clip description section of the AutoIngest user interface. This enhanced clip name is helpful in the Avid Editor for both descriptive identification as well as managing notes taken in the field. Without AutoIngest the only information available in the editor would be the camera assigned clip number.

AutoIngest’s powerful metadata tools allow batch level or individual clip level metadata modifications. Edit existing metadata or add new metadata 1 clip at a time or across multiple clips simultaneously. The metadata template tool allows new metadata fields to be pre-defined and automatically added to every clip associated with a particular device defined in the device list.

Sequence Creation

SAT AI AutoIngest supports the creation and check in of Avid Sequences for enhanced clip viewing on the Avid Editors. Sequences are generated by manually selecting the desired clips in the AutoIngest UI and then selecting the “Sequence Selected” menu option from the mouse right click menu. By creating and importing sequences to the Avid large numbers of clips can be grouped as a single unified clip on the Avid timeline. Users can then scrub through multiple clips within the sequence for easy clip browsing in the editor.

Automatic Handling of Spanned Clips

SAT AI AutoIngest automatically handles P2 clips that span multiple P2 cards. Panasonic P2 recording devices allow continuous recording across multiple P2 cards. This feature can create a single clip which is spread across more than one P2 card. These clips are called spanned clips. During ingest, it is possible that not all P2 cards will be available leading to incomplete clip data for spanned clips. AutoIngest handles this by building the correct clip for Avid with filler segments to account for the missing clip data. When the required P2 card becomes available in the future, the missing clip data will be ingested and

automatically linked into the partial clip ingest earlier. This allows editors to start working even before all media has been returned from the field.

Archiving

The Archive feature in AutoIngest provides the ability to send media and metadata to a generic FTP server including media contained in MXF files and metadata contained in AAF or XML files. The destination paths for the media and metadata files can be different.

The archive function is done in a separate process (the Archive Engine) from the main AutoIngest application such that slow archive links will not affect AutoIngest operation. The AutoIngest user interface simply queues an archive task to be performed on a selected clip to the Archive Engine. Once queued, the user can then move on to other ingest operations. For a specific clip AutoIngest stores the media locally as Avid compatible MXF files, queues an archive operation and then ingest into Avid Unity (if selected). Like the ingest process, the archive function can be set up for automatic or manual operation.

The Archive Engine uses a separate user interface to show status for an archive operation. Note that the Archive status display on the AutoIngest user Interface is only used to indicate that a clip has successfully been sent to the Archive Engine – NOT THAT IT IS DONE ARCHIVING. For detailed status of the actual archiving process, the Archiver main form can be brought up via the “Show” button on any devices Archive tab or by double clicking the AutoIngest icon in the system tray or by right-clicking the icon and selecting Open.

SAT AI AutoIngest Workflow:

Transferring file based media from your Panasonic P2 device to Avid could not be easier using AutoIngest. Start by capturing media with your Panasonic P2 camera or deck. To begin the ingest process bring the P2 media to a P2 adaptor attached directly to your AutoIngest system. AutoIngest detects the presence of new P2 media and immediately scans for new clips. If configured for automatic operation, AutoIngest begins transferring all file based media from the P2 device directly to your Avid workgroup or stand alone editor, creating and checking in fully compliant Avid MXF. Manual operation of AutoIngest allows the user to batch rename clips and add, modify or delete metadata prior to transfer. As each clip is created, all metadata assigned at capture is transferred to the Avid with the media providing a rich set of descriptive information for the editors. AutoIngest also stores a copy of the P2 media and metadata in Avid compliant format to the local hard drive. This serves as a temporary archive so the P2 device can be safely erased and returned to the field for reuse. Media from the local storage can be re-ingested to the workgroup at any time in the future if required.

SAT AI AutoIngest Workflow with a Panasonic P2 Device



Because the media is transferred with all its metadata, editors are able to work with the data as soon as it is ingested, allowing immediate collaboration and enhanced creativity.

SAT AI AutoIngest User Interface:

The SAT AI AutoIngest User Interface has four areas:

- Device List Area: identify media storage/adaptor devices
- Device Details Area: media device setup, configuration and status
- Clip List Area: view and edit Clip Metadata
- Clip Detail Area: view Clip properties from Clip List area and view thumbnail of the clip (if one exists)

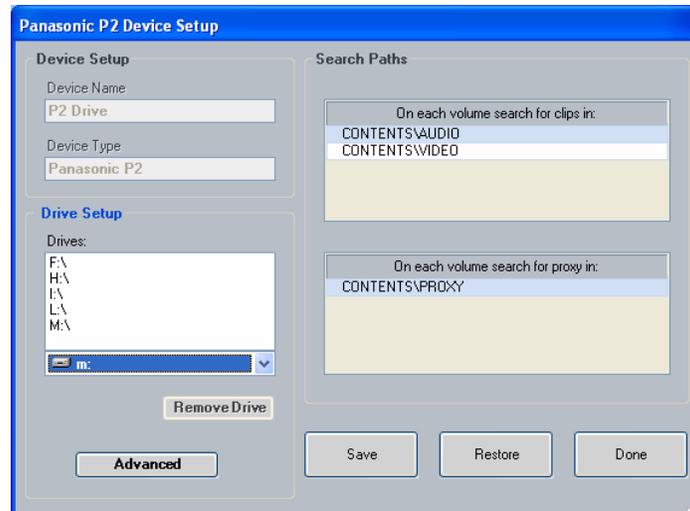


The screenshot displays the SAT AI AutoIngest software interface. On the left, the 'Device List' area shows a tree view with 'P2 Drive' selected, containing sub-items like 'P2 caribus', 'P2 Camera', and 'Local Storage'. Below this is the 'Device Details' area for the 'P2 Drive', showing storage and transfer status (0%) and options for Store, Transfer, Sequence, and Archive. The main 'Clip List' area is a table with columns for Name, Status, Creation Date, Duration, Tape, and ShowMark. It lists clips from 'Play 01' to 'Play 13'. The 'Clip Detail' area at the bottom right shows a thumbnail of a soccer game and a table of metadata for 'Play 13', including Name, AI Date, AI Host, Global Clip ID, End Date, Start Date, Model Name, Serial No., Manufacture, Modified Date, Creation Date, Data Source, Aspect Ratio, Codec, MaskIn, and MaskOut.

Name	Value
Name	Play 13
[New Attribute]	
AI Date	2009/03/17 17:51:19
AI Host	SVQA
Global Clip ID	060A283401010901010...
End Date	12/02/2007 23:46:46
Start Date	12/02/2007 23:46:25
Model Name	AJHP-0000P
Serial No.	C7TKA0078
Manufacture	Panasonic
Modified Date	12/02/2007 23:46:46
Creation Date	12/02/2007 23:46:24
Data Source	SHOOTING
Aspect Ratio	16:9
Codec	DV100_1080/60/99.94
MaskIn	05:43:20:03
MaskOut	05:43:41:21

The Panasonic P2 Drive Device Setup

Below is an example of the Device Setup Dialog Box used to configure operation with a 5 slot P2 card adaptor. Each P2 card slot is assigned a unique drive letter. Multiple drive letters can be assigned to a single AutoIngest device.



Add the drive letters to the Drives list by choosing them (one at a time) in the drop down menu list under the **Drive Setup** list.

SAT AI AutoIngest creates media compatible with the following applications:

- Avid Interplay™
- Avid MediaManager™
- Avid Nearchive™
- Avid Unity™
- Avid ISIS™
- Avid Editors that support MXF media files
- MediaComposer®
- NewsCutter®
- Symphony Nitris®

Supported Panasonic Equipment

- Laptop CardBus slot with Panasonic driver software
- Panasonic P2 Cameras and Decks in USB mode with Panasonic driver software
- Panasonic P2 Deck (AJ-PCD20) 5 card USB adapter
- Panasonic P2 Store

SAT AI AutoIngest ISIS Server – Turnkey System

Includes:

- SAT AI AutoIngest software
- Avid TransferManager Server Software & license
- Avid WebServices Software
- Avid ISIS Client Software
- XEON Quad Core Processor
- 4 TB Raid 5 removable storage
- 2 GB High Performance Memory
- Quad Gigabit Ethernet
- 2 U Rack mount chassis
- Redundant Power Supplies and Cooling

SAT AI AutoIngest

Includes:

- SAT AI AutoIngest software
- Avid TransferManager Server Software & license
- Avid WebServices Software

Requires:

- Customer Supplied Windows XP workstation
 - 2 GHz CPU or greater
 - 1 GB RAM
 - 25 GB free disk Space (minimum)
 - 1024 x 768 (or larger) screen resolution
 - USB 2.0 (for connection to Panasonic P2 USB adaptor)
 - 1Gbps Ethernet

To download a 21 day-trial version of SAT AI AutoIngest software, go to www.nltek.com. The 21 days will start when you install the software.

For more information email: info@nltek.com

For support email: support@nltek.com