



# SIENNA

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# TARO



READING YOUR FUTURE



## Card Based Workflow Infrastructure

**SiennaTarO** resolves the workflow challenges presented during the transition to tapeless cameras in News, Sports and Production.

Adopting a workflow with tapeless cameras might seem straightforward, but the reality can be quite a different matter - sometimes the simplest of challenges can upset workflow migration. **SiennaTarO** combines a powerful software toolset with a rugged USB panel to provide familiar physical and functional metaphors for users transitioning off tape.

Hardware : Broadcasters are used to a row of rack mounted VTRs for ingesting their camera tapes - With **SiennaTarO**, multiple card-based ingest systems can also be centralised, with rack mounted card readers and multi-node control from a single screen.

The **TarO** hardware is much more than simply a card reader, since it also has a companion status display providing real time information about the task associated with the card reader. Users can see instantly if a card is busy, and hence should not be removed, and conversely a user looking for a 'free' slot for a new card can easily see which **TarO** unit is ready to receive media. Soft keys on the display can be used to safely eject media and other main functions without going to the computer interface. The **TarO** panel also has a 4.3" 16x9 PAL/NTSC Video monitor. This is driven by a video interface attached to the host computer, and displays the card video content allowing review of media. Play, Stop and Skip soft keys allow you to jump instantly from take to take.

The real key to **TarO's** functionality is the powerful software, running on a Mac Mini or other Mac, connected via USB to the **TarO** hardware panel. It provides auto detection of cards as they are inserted, determining the video format, and instantly creating a 'virtual tape' representing all of the card's clips concatenated into a familiar 'tape' style timeline. Accessing the media in-place directly on the card, the **TarO** software allows playback of the virtual tape, without transferring any media off the card. For outside broadcast trucks this provides a painless mechanism to uplink card content via SDI, and for broadcast ingest, review of card contents is quick and easy prior to transfer.



**TarO's** high speed USB2.0 interface transfers media at up to 480mbps onto the internal storage of the mac, or directly onto your shared storage. During the transfer, **TarO** trans-wraps or trans-codes the media into your station format in a single operation. The Virtual-tape mechanism delivers a single asset per card, automatically logged into the shot sections. This single-asset metaphor once again provides a familiar workflow to tape, rather than the fragmented mess of many files which is created by some other tapeless camera workflows.

In addition to full **Sienna** MAM integration, **TarO** delivers a QuickTime movie and a companion XML file for Final Cut users, to load the asset into FCP with each subclip as a marker in the main media, which is editable during transfer. For Final Cut Server users. **TarO** checks media and metadata directly into FCS without relying on watch folders.

Many other target workflows are supported with **TarO** converting the media into MXF, GXF or dozens of other formats during transfer. For broadcasters with multiple **TarO** devices in a centralised ingest system, Sienna IngestControl allows up to 15 **TarO** nodes to be centrally controlled from a single screen, even mixed-and-matched with **Sienna PictureReady** base-band video ingest nodes on one display.

Common practice for tape workflows is to store the tape 'on the shelf' for a while before recycling it - so you can revisit the footage. Again, **TarO** provides a familiar metaphor by automatically creating a disk-image archive of the entire card, stored on a device like LTO or a NAS - acting as your virtual-shelf. Having safely archived the card, it can be erased and immediately sent back into the field.

If you need to revisit the content, you simply select a disk image in **TarO** and it will be remounted and accessible for playback and transfer just as if you had inserted the original card. Finally **TarO** incorporates a WAN acceleration and compression workflow for uplinking data media from the field to your central infrastructure.

In summary, **TarO** provides a set of familiar tools, with the very simplest and most direct actions allowing you to load content from a card, playout through SDI, transfer into edit assets and archive card content. Practical, robust and ergonomic software and hardware provide a single solution to all the challenges raised when transitioning to tapeless cameras. Various models of the **TarO** panel are available with different card readers, including Panasonic P2, Sony SxS, and Generic ExpressCard (for low cost SxS workflow or JVC XDCam). Support for Compact Flash (eg Canon XF Format, or EOS5D), and Ikegami Editcam are also available.

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