

# Cinegy Ingest

real-time SD & HD multi-format ingest



The first phase in the production process, ingest is critical to the success of any project. The value of media assets for both production and archival purposes is directly related to how they are ingested into the production environment. Problems and deficiencies that occur at this stage can be difficult, time-consuming and costly to remedy later on. Cinegy Ingest is a high quality, high volume media ingest system for broadcast and media production environments. It is capable of producing superior quality video material in real-time from virtually any video source, broadcast stream or IP stream. It supports SD and HD, and includes such features as scene detection, multiple level proxy generation and the ability to concurrently generate high resolution and low resolution formats.

## Broadcast Quality

Quality is of paramount importance in broadcast production, and is even more critical in archiving media that is expected to last for decades or longer. For most organizations, it is also prudent to consider such factors as costs and storage requirements in order to determine the best format for archival material and an acceptable level of compression.

Cinegy Ingest offers the perfect way to balance quality, storage and costs. Based on Cinegy's industry-leading encoding technology, it can be used to achieve a high compression while delivering the highest level of quality possible. Storage requirements and costs are kept low without compromising standards for broadcast quality. Ingested media is available in an open, industry-standard format for seamless integration with asset management systems, video servers, editorial systems and other production processes.

## HD Ingest

Cinegy Ingest supports ingest of high definition media, providing a variety of popular HD production formats ranging from AVC-Intra 100 over XDCAM HD422 to AVID DNxHD. Even higher bit rates or custom profiles are no problem. All codecs are software based and take advantage of the latest CPUs.

## DVB Ingest

Cinegy Ingest can directly ingest digital video broadcast streams without additional transcoding. Low resolution proxy versions of incoming streams can be created on the fly. Automatic recording of channels can be scheduled via the batch ingest function.

## Multi-Format Ingest & Proxy Generation

Cinegy Ingest has the ability to produce video in multiple formats concurrently to meet complex delivery requirements for broadcast, internet and mobile platforms. This feature can also be used to support distributed production environments, such as Cinegy Desktop, where different users (including remote users) and different applications require media in different formats and resolutions.

## IP Streams

Cinegy Ingest can capture live RTP/UDP streams (e.g. from satellite IRDs) from multiple sources in their native format or with realtime transcoding and proxy creation. Multicast and unicast IP streams can be ingested on schedule using the batch ingest function.

## KEY FEATURES

High-quality SD and/or HD

Real-time performance

Scene detection

Multiple formats

Proxy generation

Distributed compression

Batch ingest

Capture RTP/UDP streams

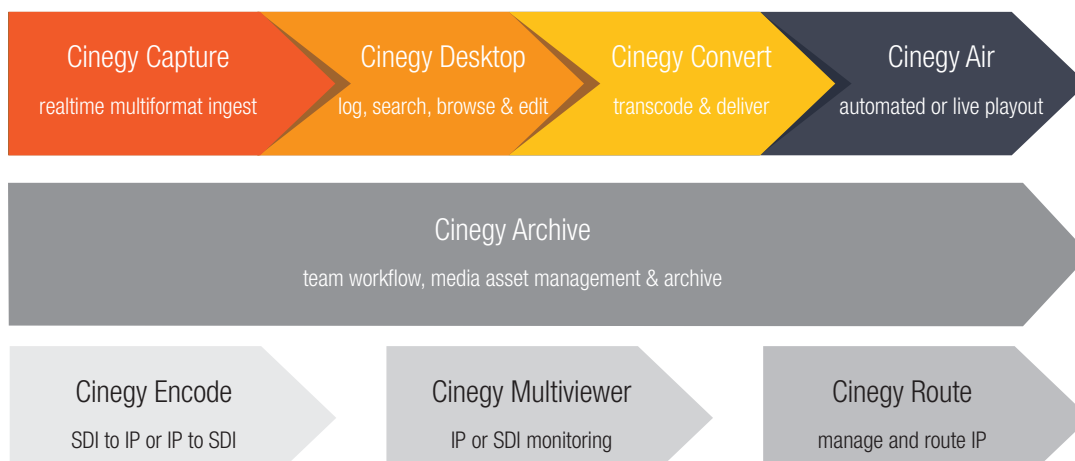
AVID compatible MXF ingest

Flash/H.264

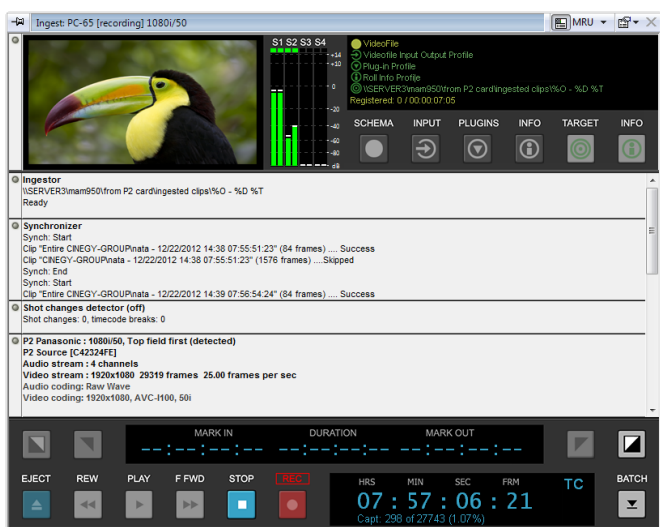
AVID JFIF Proxy

AVC-Intra

AVID DNxHD



Cinegy software forms an open platform consisting of a suite of software tools, applications and open APIs covering every stage of the digital production process. Cinegy Ingest enables real-time ingest of SD and HD media (plus metadata).



Ingest with Panasonic P2 Camera

## Ingest Metadata

Cinegy Ingest preserves the original tape timecode, while simultaneously creating a new, clean system timecode. The original timecode is often the only form of metadata available and is often an essential reference for production notes and similar information. Cinegy Ingest also supports the re-ingest of media, while preserving pre-logged metadata.

## Scene Detection

Cinegy Ingest automatically detects scene changes and shots in incoming video streams. This feature, which can be configured to each individual user's requirements, helps to streamline logging, browsing, material selection and storyboarding. Ingest also detects timecode breaks.

## Closed Caption Metadata

Closed caption text included with incoming SDI or DV video signals can be decoded and automatically associated with the ingested stream. It is an easy way to create additional metadata that can then be used in searches. When search words are found in the closed caption text, associated video is immediately retrieved.

## Batch Ingest

Batch ingest allows time controlled or EDL based ingest of live video feeds or tape-based video material. For live ingest, the system supports automatic channel switching of DVB channels or SDI router hardware. Schedules and EDLs can be imported in various formats.

## Loop Recording Ringbuffer

Cinegy Ingest offers a ring-buffer recording option to avoid video loss or missed opportunities such as non-scheduled news feeds and live shots. The buffer can be set for a predetermined duration of minutes or hours.

## Video Formats and Video Hardware Support

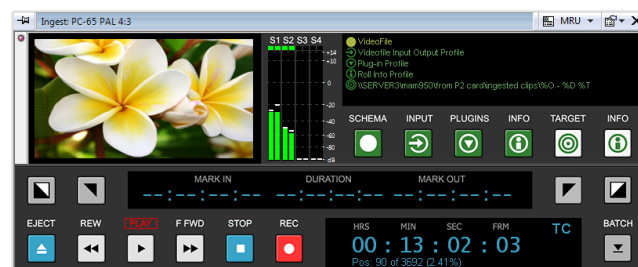
Supported file formats include AVI, MPEG, H.264, MXF, QuickTime, Flash, Windows Media, numbered still image sequences, and many more. Supported ingest hardware includes SDI, HD-SDI, DV, XDCAM, P2, DVB, DVD, CD-Audio, analog video & audio, DAT and digital audio, among others.

## State-of-the-Art Native Formats

Media is natively stored using state-of-the-art file formats including Avid-compatible MXF with DV & IMX for SD and HDV, AVC-Intra, AVID DNxHD 220/185, DVCPProHD for HD compression. The high-quality, lower bitrate H.264 format is also natively supported.

## Performance

For ingesting uncompressed 1080i HD-SDI and video encoding to high-quality, long GOP MPEG-2 with 4:2:2 color fidelity and bitrates up to 80Mbit/s, Cinegy Ingest requires only a single Intel Core2Quad processor with 2GB of RAM. For simultaneous, real-time encoding of AVC-Intra, SD MPEG-2 and Flash/H.264 streams a Dual Xeon quad-core server with 4GB RAM is sufficient. Servers may be clustered for more demanding tasks.



Collapsed view of the Cinegy Ingest module