



SD/HD Ingest Solutions

# Creator



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## Optibase Creator is a unified, real-time ingest solution that streamlines the content creation process

Creator Ingest Server is the ideal content creation solution for post-production, video-on-demand creation, playout and file archiving. It integrates the essential components of the creation process into a single, unified platform. Optibase Creator offers cost saving by simplifying and reducing the asset creation time.

### Integrated Process

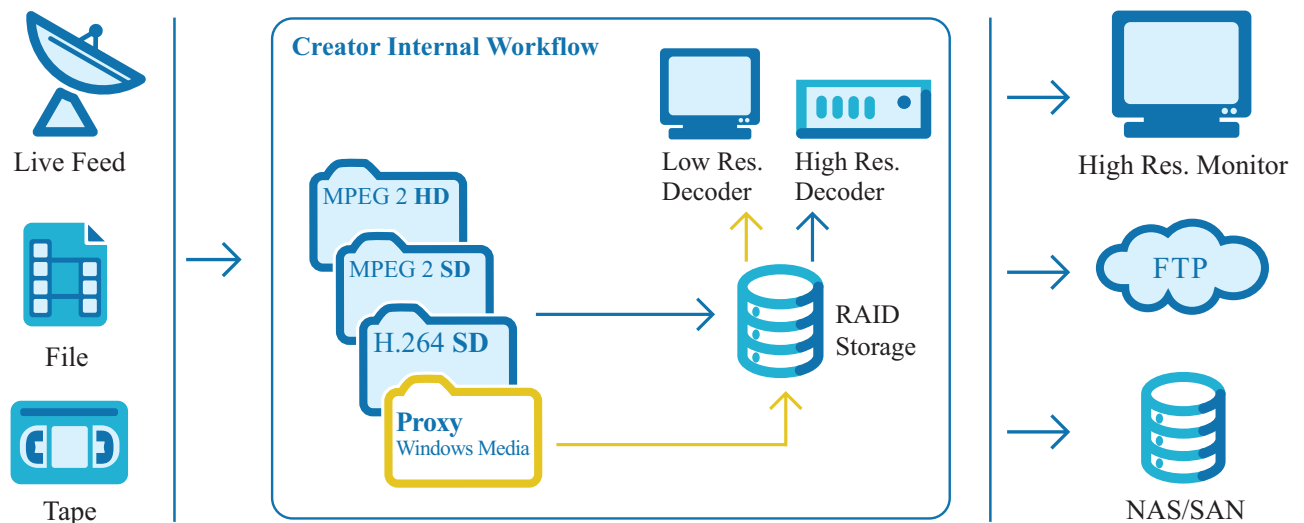
Creator Ingest Server is designed with a powerful, hardware-based encoding engine. This allows real-time processing of MPEG-2 and H.264 high definition (HD) and standard definition (SD) master files simultaneously with the low-resolution proxy copy. Using the Creator Real-Time Quality Control (QC) module, results can be verified during and following the encoding process. This creates a single pass procedure and provides significant savings on time and resources. The creator also provide built-in support for closed caption in SD and HD formats.

### Multiple Applications

The Creator supports MPEG-2 and H.264 high definition (HD) and standard definition (SD) video workflows by offering a single content creation platform for broadcasting applications. The Creator creates files that are compatible with the leading video servers vendors for Playout, NLE and post production. It offers CableLabs VOD content and Metadata compliancy as well as support for multiplexing formats such as Quick Time, MXF, program streams and transport streams.

### Flexible Workflow

Creator Ingest Server is designed to fit seamlessly into your workflow. Whether you store your assets locally using the internal RAID storage or work with an external centralized storage solution (NAS/SAN), the Creator Ingest Server will write the files directly to your desired storage location. A comprehensive suite of player options provides intuitive and immediate access to the assets and offers viewing, in real-time or playback, of the generated material on a professional monitor or on the computer screen.



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## Benefits

### One-Time Ingest for Multiple Formats

Encodes the master digital file in one session, supporting leading video server file formats, NLE systems, Quick Time, MXF, program and transport streams

### Flexible Interfaces

Captures data from tape, file or live feed sources in digital SD, HD or analog video

### Real-time Master and Proxy Encoding

Reduces costs and encoding time by creating high-resolution (Master) and low-resolution (Proxy) files concurrently

### Real Time Quality Control

Offers content validation as it is being created and allows playback of high-resolution video files stored either internally or externally

### Built-In Closed Caption

Allows for a cost effective, one-click operation for EIA-708 closed captions insertion in addition to external support for EIA-608 closed captions

### VOD Compliant

Reduces management time by saving Metadata in XML format and transferring it directly to the VOD asset management

## Creator Management



Scheduled Clips



Proxy Player



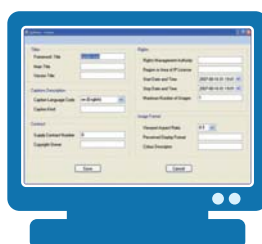
VOD Metadata



Master Player



Manual Clips



MXF DMX-1 Metadata

## Applications

**Post Production Systems** - the Creator generates video content for non-linear editing on both SD and HD formats in highest broadcast quality

**Playout Server** - the Creator creates digital video files for on-line video server vendors

**Video-On-Demand** - the Creator encodes digital CableLabs compliant files along with related Metadata accessible to the Asset Management system in addition to the Traffic system

**File Archiving** - the Creator produces video content at top broadcast quality (up to 150 Mbps) for digital file-based archiving and enables easy file search and retrieval for re-playing and re-editing

## Features

- Video inputs: HD-SDI, SDI, composite, component
- Audio inputs: Embedded, AES, analog
- Multi-format: MPEG-2 and H.264 high definition (HD) and standard definition (SD)
- File as input
- Real time windows media proxy
- Frame accurate VTR control
- Real time MXF
- Real time quality control output
- Metadata editor
- Professional management application
- Interoperability with leading
  - NLE systems
  - Playout servers
  - Video On Demand servers
- Internal, redundant storage and NAS/SAN support

# Creator

## Specifications

### Inputs

#### Video

Analog: Composite, Component  
SDI (SMPTE 259)  
HD-SDI (SMPTE 292M)

#### Audio

Analog 2 x XLR - Stereo Audio  
4 x AES/EBU digital audio inputs  
Embedded audio up to 8 stereo pairs

### Supported Formats

#### Video Formats

MPEG-2 422P@ML 15 to 50 Mbit/s  
MPEG-2 MP@ML 2 to 15 Mbit/s  
MPEG-2 422P@ML IMX  
MPEG-2 MP@HL 12 to 80 Mbit/s  
MPEG-2 422P@HL 12 to 150 Mbit/s  
H.264 SD main profile 0.5 to 3 Mbit/s  
WM low resolution 500Kbp - 2Mbps

#### Audio Formats

Dolby stereo 2.0  
MPEG-1 Layer II  
Dolby Digital (AC-3 5.1 channel pass through)  
Dolby-E pass through\*  
Uncompressed linear PCM  
MPEG-4 AAC-LC

### Monitoring Output

#### Video decoder

SDI (SMPTE 259)  
HD-SDI (SMPTE 292M)

#### Audio

1 x AES/EBU  
Embedded audio

### Supported Resolutions

1080 x 1920/1440/1280 50i, 59.94i  
720 x 1280/960 50p, 59.94p  
576 x 720/704, 640, 528 (PAL)  
480 x 720/704, 640, 528 (NTSC)

### Applications

Content creation for NLE systems  
Content creation for Playout servers  
Content creation for VOD servers  
Content creation for Archive

### VBI

Closed caption coding SD and HD

### Advanced Feature

#### Real time proxy during ingest

Windows media

#### Quality control

QC during ingest and playback off line files

#### Multiplexing

MXF (material exchange format)

Quick time

Transport stream/Program stream

#### Metadata

VOD cablelabs 1.1 and 2.0\*

MXF DMS-1

#### Closed captioning

Built in closed caption EIA-708\*

Support of EEG BOX for EIA-608 and 708

#### Machine control via Sony 9 pin (RS-422) interface

### Platform

Dual Duo-Core 2.33GHz, 4MB cache

Windows server 2003

4GB RAM

3x 500GB RAID 5 (1 Tera internal storage)

Ethernet: 2x GB copper

DVD Drive: DL writer x 16

HBA Fiber Channel (Optional)

#### Physical and Power

4RU 19" rack-mountable chassis

#### Power input

2 x 100-240Vac 50/60 Hz

Hot swappable and redundant power supply

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