

The iLux File distribution platform assures exceptional quality, speed and reliability.



Depending on configuration a 2 RU chassis may be provided.

The iLux File file processing platform serves a wide variety of content distribution customers who can cost-effectively and reliably convert their studio masters to linear or ABR formats for distribution. The platform has a very strong suite of telecine processing features that automatically dejitters previously telecined content. This unique feature results in the highest video quality at the lowest bandwidth.

iLux File has also been integrated with asset management solutions and object storage solutions to create a very powerful file processing systems. This forward-looking architecture is especially important for next generation audio and video codec formats and other aggregation functions.

For rapid file-based video ingest, processing and publishing, there is no solution that compares to iLux File™. It provides an efficient and scalable solution that can ingest a variety of formats from a local storage source or a remote location and create linear or adaptive streams for publishing to local archive or to a remote location using standard server clusters. A powerful and flexible redundant scheduler and a redundant webserver distribute all asset conversions to worker nodes which use robust failsafe mechanisms to ensure timely job completion. There is no downtime with the iLux File platform! Convenient Web and REST-ful interfaces, workflow integration with leading asset-flow managers, along with in-built diagnostic and management tools, make the iLux File platform easy to set up and manage.



Flexible Inputs

Ingest a variety of formats from a local source or remote location.



Easy Conversion

Create linear or adaptive bit rate (ABR) streams for distribution to a local archive, MAM, or a remote location.



Fail safe redundancy

iLux File includes redundant scheduler and webservers to distribute transcoded material to worker nodes which ensure timely job completion.



Powerful workflows

Web and RESTful interfaces assure easy integration with other applications.



Simple control

Built-in diagnostic and management tools make iLux File simple to set up, control and manage.



Multiple streams

HTTP Live Streaming and DASH format support.

Key Features

- Input File Formats: MPEG2 TS, MP4
- Multiple File Format support
- Outputs: MPEG2 TS, MP4, HLS*, HDS* or Smooth Streaming transport packaging
- SD and HD Formats on inputs and adaptive multi-stream outputs
- MPEG2/H.264/HEVC full two-pass encoding
- DASH format support
- Apple HTTP Dynamic Streaming* format support
- Microsoft Smooth Streaming format support
- Compatible with Concurrent eFactor,
- Wowza Media Server, MSFT IIS, and
- Adobe FMS
- Simultaneous VOD file creation in all modes
- Multi-Resolution, multi-frame rate support
- Multi-channel Audio support
- MCTF de-interlacing for highest video quality with interlaced inputs

Specifications

Compression Standards

Video	MPEG-2 simple, main, and main profile @ high level MPEG-4 AVC/H.264 Baseline, Main, and High Profile Up to Level 4.2 HD HEVC**
Audio	Multiple programs per channel, configurable SDI audio slots MPEG-1 layer 2 MPEG-2 layer 3 (mp3) MPEG2/MPEG-4,AAC-LC, AAC-HEv1, AAC-HEv2 Dolby Digital E, AC-3 and pass through Sampling Frequency: 32, 44.1, 48 KHz

Resolutions and Frame Rates

Flexible - QCIF to HD 1080p60 Mix and match resolutions, frame rates and bit rates - very flexible output configurations	576i and 480i x 720, 544 and 352 pixels @ 23.976, 25, 29.97 and 30 Hz
	1080i x 1920, 1440, 1280 and 960 pixels @ 23.976, 25, 29.97 and 30 Hz
	240p, 288p,480p,576p @ 10,12.5,15,20,23.976,30,50 and 59.94 and 60 Hz
	720p x 1280, 960 and 640 pixels @ 10, 12.5,15, 24, 30, 50 and 60 Hz
	1080p x 1920,1440,1280, and 960 pixels @ 10,12.5,15, 23.976, 50, 59.94, and 60 Hz (1080p60 is upgrade option)

Optional Processing

Format Conversion*
PAL/NTSC to NTSC/PAL
50i/25p to/from 60i/30p
50p to/from 60p
Cropping/Scaling (manual or AFD)
Single in - multi-out(e.g. PIP)
Noise Filtering*
Audio Level Control

Transcoding

Full decode/full re-encode mode
Scene Change Detection and I frame insertion
Fixed and Dynamic GOP Structures
Automatic quality adaptation based on in-stream activity

Rate Control

CBR, VBR, Capped VBR
Single and Multi-pass modes

Multi-Stream Transport Packaging

Apple HLS - HTTP Multirate with TS segmenting
Microsoft Silverlight Multirate
MPEG DASH*
Synchronized native MPEG2-TS Multirate

I/O

Inputs: MPEG2-TS, MP4, MPEG2-PS, MOV, MXF
Outputs: MPEG2-TS, MP4, Apple HLS, Microsoft Smooth Streaming, MPEG DASH*

Input-Output Interfaces

IP - Dual/Quad Gigabit Ethernet ports

Configuration and Management

Embedded web-server interface
SNMP Control
REST API for scripted operation

Xeon Platforms

Xeon 55XX, Xeon 56XX, E3-26xx, E3-12xx
Blades, 1U, 2U, 3U with redundant power options
Up to 4 Gpixels/sec processing on 3U platform



Our Mission

First and foremost, igolgi is an engineering and development company. Our engineering staff has years of experience in every type of compression and encoding technology, and we are experts in software control and interface. Our principal engineers hold over 200 patents in compression related projects. For over a decade we have provided innovative, flexible, and high-quality solutions for the broadcast, cable, LPTV and government markets.

igolgi is an American company - all development, engineering, production, and support is based in the USA.

As ATSC 3.0, IP, and compression technologies evolve, igolgi is a partner you can count on to ensure every aspect of your design and implementation meets today's needs and is ready for future growth and expansion.

This is our "sweet spot". Let us help you.

Call or email us for a no-obligation discussion of your current and future needs.

Our Promise



Highest Quality.

Our advanced Codecs and optimized software algorithms assure the best quality in any resolution.



Simplest to Use.

Our enhanced user interface makes set up, monitoring, and changes fast and simple.



Most Configurable.

SD, HD-SDI, ASI, IP are all configurable for maximum flexibility.



Easiest Upgrade.

Update the software and change out hardware (if required) to keep you future proofed.



Superior Support.

Our support is USA-based, and our PremierPlus[®] gives you 24x7x365 expanded support and service.



Best Value.

igolgi has it all: technology, flexibility, expandability, and support... at a price that will surprise and please you.

Stay Connected



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