

H.264 file-based encoding solution

Interoperability

24/7 processing

Web

Automation

Handheld devices



Faster than
real-time

Mezzanine format

Workflow

VOD

1080p

*Matchless bandwidth efficiency
servicing multi-track On Demand asset creation*

Kyrion® File Encoder 2.0 is an **MPEG-4 AVC / H.264** file-based video/audio compression solution. Kyrion File Encoder is able to process multiple audio tracks associated with DVB subtitling and Closed Captioning enabling broadcasters and operators to feed their On Demand catalogue with a wide variety of content.

Full Interoperability

Kyrion File Encoder includes ATEME's **MP4/Transport Stream** output muxers, interoperable with numerous Set Top Boxes and Streaming Servers. Full control of these muxers gives the user the capability to ingest Kyrion File Encoder H.264 streams into any On Demand systems built upon Conditional Access Services, Digital Rights Management, VOD Servers, transport layer and decoders such as **Adobe® Flash® Media Player**.

Multi level Automation / Workflow Capability

Kyrion File Encoder offers multi-level 24/7 automation and workflow capabilities. An intelligent **Watch Folder** allows for file aggregation, networked supervision of multiple encoding licenses, **SDK** for integration with user's own Media Asset Management system, and compatibility with **Anystream® Agility** workflow.

FEATURES	Standard	Advanced	Pro
SD 576i / 480i	✓	✓	✓
AAC-LC	✓	✓	✓
MPEG-audio Layer II	✓	✓	✓
Single Audio stereo Encoding	✓	✓	✓
DVB Subtitles / DVB teletext		✓	✓
Closed Captioning		✓	✓
HE-AAC		✓	✓
Dolby® Digital support		✓	✓
Multi Audio 5.1 encoding		✓	✓
HD 1080i / 1080p			✓
HE-AACv2			✓
Dolby® Digital+ support			✓

SUPPORTED INPUT FORMATS

Media Containers

.TS, .MPG, .AVI*, .MOV*, .MXF*, .VOB*, .WAV, .AIFF

Audio / Video Codecs

Video: YUV uncompressed 4:2:0, 4:2:2, MPEG-4 AVC / H.264, MPEG-1 video, MPEG-2 video, MPEG-4 ASP video*, DV, DVCPRO25 / 50

Audio: PCM, MPEG-audio Layer II, MPEG-2 AAC-LC, MPEG-4 AAC-LC, MPEG-4 HE-AAC, MPEG-4 HE-AACv2, AC3 / AC3+

* some containers / codec combination support are subject to system installation

Video Resolution

From QCIF to 1080p with any resolution by multiple of 8

Audio channels

Multi-track audio support
Up to 4 channels in 5.1

PREPROCESSING

Audio Preprocessing

Sound Level Renormalization (2-pass)
Sound level gain
Resampling
5.1 to stereo downmix

Video Preprocessing

De-interlacing filtering
Denoising filtering

Video Editing

Logo Insertion
Image cropping and resizing
Inverse telecine
3:2 pulldown
Frame rate decimation

CONFIGURATION AND MANAGEMENT

Batch encoding manager
One-click encoding with presets
Watch Folder drop-in directory
Primary / Backup management

AUDIO COMPRESSION

Compression formats

MPEG-audio Layer II
MPEG-2 AAC-LC
MPEG-4 AAC-LC, MPEG-4 HE-AAC, MPEG-4 HE-AACv2
Dolby® Digital / Dolby Digital+ support
ADTS and LATM/LOAS support for AAC format

Rate Control Mode / Output Bitrate

CBR
From 32 kbps to 384 kbps

VIDEO COMPRESSION

Compression formats

MPEG-4 AVC / H.264 Baseline, Main and High Profiles up to level 5.1

MPEG-4 AVC Tools

Interlace (Interlaced, PAFF, MBAFF) and Progressive modes
CABAC/CAVLC entropy coding
I, P, B frames with up to 16 references
Hierarchical B-frames
All intraprediction modes, interpartitions down to 8x8
Half/Quarter pixel
Weighted prediction
In-loop deblocking filter
DCT 8x8

GOP Structure

Fixed / variable GOP size
Automatic scene cut detection
IDR-frame strategy control

Rate Control Modes / Output bitrate

CBR, VBR, 2-pass
From 20kbps to 100Mbps

DATA PROCESSING

Up to 4 DVB subtitles / DVB Teletext insertion
.STL file format support
Closed Caption insertion

FILE OUTPUT

MPEG-2 Transport Stream

DVB and ATSC compliance
Full configurable parameters (ID, PIDs, PAT/PMT Period, Stuffing Rate)
ISO language descriptors compliance

MP4 File

Progressive Download
Hinting
Large file support

PLATFORM MINIMUM REQUIREMENTS

Intel® Pentium PIV 2GHz, 512 MB
Windows 2000 / 2003 Server / XP , DirectX 9

PRODUCT OPTIONAL UPGRADES

Multi Encoder Management
SDK
VBR TS



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