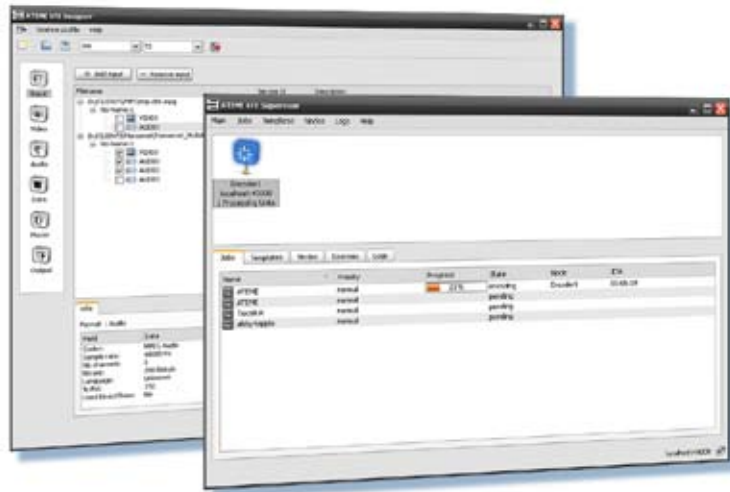


H.264 File-Based Encoding Solution



*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 subtitles 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 H.264 streams into any On Demand systems built upon Conditional Access Services, Digital Rights Management, VOD Servers, transport layers, 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 third party workflows.

KEY FEATURES

- H.264 transcoding solution running on a PC
- From QCIF to 1080p
- Support of legacy mezzanine format
- DVB subtitles/DVB Teletext/Closed Caption multiplexing capabilities
- Network multi-encoder management/SDK
- Controllable through Anystream® Agility

BENEFITS

- Innovative solution fitting into any 24/7 high-end workflow
- Faster than real-time capabilities
- Perfect match with KTF7100
- Numerous set top box/customer appliances tested
- Compliant with industry standards

PRODUCT VERSIONS

Features	Standard	Advanced	Pro
SD 576i/p and 480i/p	✓	✓	✓
ADTS/LATM AAC format	✓	✓	✓
MPEG-2/MPEG-4 AAC-LC	✓	✓	✓
MPEG-Layer II	✓	✓	✓
Single-audio stereo encoding	✓	✓	✓
Multi-audio 5.1 encoding (up to 4 tracks)		✓	✓
Up to 4 DVB Subtitles		✓	✓
Up to 4 DVB Teletext		✓	✓
Closed Caption insertion		✓	✓
MPEG-4 HE-AAC		✓	✓
Dolby® Digital pass-through		✓	✓
MPEG-4 HE-AACv2			✓
Dolby Digital Plus pass-through			✓
HD 1080i/1080p			✓
HD 720p			✓
VBR TS			✓

SUPPORTED INPUT FORMATS

Media containers

.TS, .MPG, .AVI*, .MOV*, .MXF (Op1a/Op1b/Op3c/OpAtom/P2 HD) , .VOB (.IFO), .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, DVCPRO HD , AVC-Intra 50/100, Sony® IMX 30/40/50*

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

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

PRE-PROCESSING

Audio pre-processing

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

Video pre-processing

De-interlacing filtering
Denoising filtering

Video editing

Logo insertion
Image cropping/resizing
3:2 pulldown/Inverse telecine

Frame rate conversion/decimation
.VOB files concatenation

VIDEO COMPRESSION

Standard

MPEG-4 AVC Baseline, Main and High Profiles up to level 5.1

GOP structure

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

Rate control modes / Output bit-rate

CBR, VBR, 2-pass (from 20 kbps to 100 Mbps)

AUDIO COMPRESSION

Compression formats

MPEG-1 Layer II - from 128 to 384 kbps
MPEG-2/MPEG-4 AAC-LC - from 16 to 384 kbps
HE-AACv1, HE-AACv2 - from 16 to 384 kbps
ADTS/LATM format
Dolby Digital/Dolby Digital Plus (AC.3/EAC.3) pass-through

Rate control mode

CBR

DATA PROCESSING

DVB Subtitles: from DVD, .STL files or DVB MPEG-2 files
DVB Teletext: from .STL files or DVB MPEG-2 files
Closed Caption : from .SCC files or Cable Labs MPEG-2 files

FILE OUTPUT

MPEG-2 Transport Stream

DVB/ATSC/ARIB compliances
Full configurable (PIDs, PAT/PMT Period, Stuffing Rate, ISO language descriptors)

MP4 file

Progressive download
Hinting
Large file support

CONFIGURATION AND MANAGEMENT

Batch encoding manager
One-click encoding with presets
Watch folder drop-in directory
Primary/backup management

MINIMUM PLATFORM REQUIREMENTS

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

OPTIONAL PRODUCT UPGRADES

Dolby Digital/Dolby Digital Plus encoders
Native Premium decoder (MXF/Dolby E)
Multi encoder management
Command line
SDK

COMPLIANCY



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