

Xenon™ Offline Encoder



Advanced Video On-Demand Encoder

What is Xenon Offline Encoder?

Xenon Offline Encoder is a best-in-class software encoder to convert a wide variety of source content into mobile-ready formats for both download and streaming. Xenon Offline Encoder delivers optimum video and audio quality and superior performance for all your encoding needs.

Xenon Offline Encoder is available in three versions: Pro, Batch and Standard.

Features

- Video output: H.264, MPEG-4, H.263, Flash 8/9, Real Video
- Audio output: HE-AAC V.1/2, AMR-WB, AMR-NB, QCELP, EVCR, Real Audio
- Compatible with all 3GPP and 3GPP2-compliant handsets
- Comprehensive inputs including Flash, QuickTime, Windows Media and AVI
- Create progressive download (interleaved) or normal VOD files
- Delivers supreme quality encoding with highly-optimized encoding algorithms
- Ultra-fast encoding times; encodes content quicker than competing products
- Create multi-track VOD files to be used for Dynamic Bit-rate Adaptation
- Easy to use with an intuitive graphical user interface
- OMA DRM V.1 (Forward Lock) support
- Batch encoding capability (Pro / Batch versions)
- Simple automation with a command line interface / DLL (Pro version)
- Automatically encode content from designated watch folders

Why Xenon Offline Encoder?

Unbeatable Quality and Fastest Encoding

Xenon delivers superb output quality coupled with extremely fast encoding times. Vidiator's in-house developers constantly optimize the audio and video codecs, making sure that we cannot be beaten where it matters: quality and speed.

Extensive Input and Output Format Support

Xenon Offline Encoder supports advanced codecs such as H.264 video and HE-AAC (V1/V2) audio, in addition to extensive input formats including Flash 8/9. Xenon Offline Encoder can also create multi-track files to be used in rate-adaptation (such as Xenon Streamer's Dynamic Bit-rate Adaptation), meaning that the stream can be constantly adapted in reaction to the network conditions.

Handset Compatibility

Xenon Offline Encoder is comprehensively tested with the latest standards-compliant handsets, so that your content is guaranteed to play seamlessly and without interruption. Vidiator is an active member in many test groups such as IMTC and has very close relationships with handset vendors.

Streaming Server Compatibility

Content produced by Xenon Offline Encoder can be streamed from any standard streaming server including Xenon Streamer, Helix Server, Darwin and QuickTime. This gives the flexibility to use the best encoder with any delivery server.

Digital Rights Management

Xenon Offline Encoder supports OMA V1.0 DRM (Forward Lock).

Technical Specifications

OUTPUT

General

Detailed custom parameter settings such as Intra Refresh interval, key frame interval, and decoder buffer size.
Optional error resilience tools (data partitioning and RVLC).
3GPP Timed Text (MPEG-4 Part 17).

File Formats

3GPP (.3GP)
3GPP2 (.3G2)
KWISF (.K3G)
Real Media (.RM)
MP4 (.MP4)
IMode
Hint tracks are supported
Progressive download (interleaved) mode

Video

H.264 (AVC) Baseline Profile Levels 0, 1b, 1.1, 1.2, 1.3, 2.0, 2.1, 2.2
MPEG-4 Simple Profile Levels 0, 0b, 1, 2, 3
MPEG-4 Advanced Simple Profile Levels 1, 2, 3, 4
H.263 Baseline Profile 0 Levels 10, 20, 30, 40, 45
H.263 Profile 3 Levels 10, 20, 30, 40, 45
Real Video

Video Coding Mode

Constant Bit-rate (CBR) and Variable Bit-rate (VBR) modes
Single or double-pass modes (CBR and VBR)

Resolution

Completely flexible encoding sizes, such as:
112x96, SQCIF (128x96), 160x112, QQVGA (160x120), QCIF (176x144),
192x144, 320x224, QVGA (320x240), CIF (352x288), VGA (640x480),
or user-defined

Audio

AAC-LC
HE-AAC V.1 (AACPlus)
HE-AAC V.2 (Enhanced AACPlus)
AMR-NB
AMR-WB
QCELP
EVRC
Real Audio

INPUT

Windows Media
QuickTime (MOV)
Flash (FLV) 8, 9
AVI, MP3, WAV, AIF, AIFF, SND, AU, MPEG-1, MPEG-2, MPEG-4
All formats supported by a DirectShow Filter

PRE-PROCESSING

Logo insertion, video headers and trailers
Color control (brightness, contrast, hue, and saturation)
Gamma correction, noise reduction
Cropping, inverse telecine, de-interlacing
Volume level control and volume normalization

AUTOMATION AND INTEGRATION

Xenon Offline Encoder is also available as a Component version (DLL only) which can be integrated into 3rd party encoding and management systems (such as Anystream Agility), in addition to a comprehensive command-line interface.

MONITORING

SNMP support
Comprehensive logging

SUPPORTED OPERATING SYSTEMS

Windows Server 2003 Standard
Windows Server 2003 Enterprise
Windows XP

SUPPORTED HARDWARE

A full list of recommended hardware can be provided on request

What's in each version?

Product Features	Xenon™ Offline Encoder Pro	Xenon™ Offline Encoder Batch	Xenon™ Offline Encoder Standard
Supreme Encoding Quality	✓	✓	✓
2-Pass Encoding	✓	✓	✓
H.264 and HE-AAC	✓	✓	✓
Pre-processing	✓	✓	✓
Real Media Support	✓	✓	✓
MobileMP4 Support	✓	✓	✓
Web-based Support	✓	✓	✓
Batch Encoding and Parallel Processing	✓	✓	✓
Command Line Interface	✓		
Process Scheduling	✓		
SNMP Support	✓		
Multi-Track Encoding	✓		
Premium Support	✓	✓	

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