

MPEG-4 Part 2 / H.263

Comprehensive A/C Codec Library

Largest video codec libraries on earth, supporting nearly every major format in use today in both consumer and professional markets.



The MPEG-4 Part 2 / H.263 Encoder SDK is a software module for video stream conversion into MPEG-4 (ISO/IEC 14496-2) and H.263 (ITU-T Recommendation H.263) streams. This format is predominantly used for environments where low bit rates are required, such as streaming. The encoder supports the Simple Profile (SP) as well as the Advanced Simple Profile (ASP). The Encoder Package enables you to generate MPEG-4 Part 2 compliant streams, that are used by Sony PSP, Apple iPod and other mobile devices. Additionally, you can create H.263 streams that are required by various mobile phones. As file format MP4 and 3GPP is supported.

The corresponding Decoder SDK is a software-only playback solution for MPEG-4 (ISO/IEC 14496-2) and H.263 (ITU-T Recommendation H.263) streams. The MPEG-4 Video Decoder can process ISO/IEC 14496-2 video streams produced by the MainConcept MPEG Demultiplexer filter, MainConcept MP4 Demultiplexer filter or by any other compliant filter, such as DivX, Xvid Video Encoders, etc.

MAINCONCEPT MPEG-4 PART 2 / H.263 SDK PACKAGES

MPEG-4 PART 2 / H.263 ENCODER SDK

MPEG-4 Part 2 Encoder and related audio and multiplexing components to create MPEG-4 Part 2 and H.263 compliant content.

MPEG-4 PART 2 / H.263 DECODER SDK

MPEG-4 Part 2 Decoder and related audio and demultiplexing components for playback and ingest of MPEG-4 Part 2 and H.263 compliant content.

FEATURES

ENCODER:

- Software-only MPEG-4 (ISO/IEC 14496-2) and H.263 (ITU-T Recommendation H.263) encoding.
- Selectable Profiles and levels up to “Advanced Simple Profile @ 5 Level”.
- Selectable bitrates up to Main Profile 4 Level restriction (38,4 Mbps).
- H.263 Profile 0, Levels 10-70.
- Configurable bitrate control (VBR, CBR).
- Configurable GOP structure (I-, P- and B-frames in different combinations).
- 4:2:0 chroma format support.
- Configurable motion estimation (quality and search range).
- Configurable scene change detection.
- Configurable Pixel Aspect Ratio value.
- Custom frame rate support for H.263

DECODER:

- Software-only ISO/IEC 14496-2 and ITU-T Recommendation H.263 video stream decoding.
- Simple and Advanced Simple profiles support.
- Full-resolution, full-quality decoding/playback (high precision arithmetic, quarter-pel motion compensation, post-process).
- Optimized for the most efficient CPU usage – takes advantage of MMX™ and SSE™ extensions when available.
- Low Latency feature.
- DirectShow® Multimedia Streaming support.
- Special control interface – the programmatic control of the decoding quality, film effects.

STREAM TYPES & FORMATS

Elementary Stream:

Generic MPEG-4 Parts 2 and H.263 Elementary Streams

MP4:

Apple iPod, Apple iPad, Apple iPhone, Sony PSP, Sony XDCAM Proxy

3GP:

MPEG-4 Part 2 and H.263 compliant 3GP streams for legacy mobile devices such as cell phones and tablets

COMPONENTS

MPEG-4 PART 2 / H.263 ENCODER SDK

MPEG-4 / H.263 Video Encoder
Fraunhofer AAC Encoder
AAC Encoder
AMR Encoder
MP4 Multiplexer

MPEG-4 PART 2 / H.263 DECODER SDK

MPEG-4 / H.263 Video Decoder
Media File Importer (LL)
AAC Decoder
AMR Decoder
MP4 Demultiplexer

TECH SPECS

- Microsoft® Windows® 7, Windows 8, Windows 10 (32-bit/64-bit)
- Apple Mac OS X 10.6 or higher (Mac/Intel), (32-bit/64-bit)
- Linux Ubuntu 10.04 LTS (32-bit/64-bit)

For Windows, Mac OS X and Linux, the codec package consists of a Low Level API (in the C programming language). Under Windows, it additionally includes DirectShow® filters for decoding and encoding.