

MainConcept HEVC Decoder Plugin for FFmpeg

High-Performance Decoding and Transcoding for Professional FFmpeg Workflows

The MainConcept FFmpeg Plugins enable users to create highly flexible decoding, encoding and transcoding workflows or services based on FFmpeg. The plugins can be deployed on on-premise servers, in the cloud or in hybrid solutions to significantly boost up both performance and quality of your audio as well as video content.

HEVC/H.265 DECODING FOR PROFESSIONAL USE-CASES

The HEVC Decoder Plugin for FFmpeg allows content producers and broadcasters to use MainConcept's market-proven HEVC/H.265 decoding technology natively within an FFmpeg workflow or service. The plugin is also ideal for transcoding workflows supporting most H.265 formats in use today, e.g. professional camcorder video streams, such as Nikon N9, Canon XF-HEVC or Sony XAVC 2.0 (XAVC-HS), but also OTT streaming formats like MPEG-DASH and Apple HLS.

CHOOSE THE BEST FROM MAINCONCEPT & FFmpeg

In contrast to FFmpeg's native HEVC decoder implementation, the easy-to-integrate FFmpeg Plugin offers interlaced decoding of H.265 video streams, plus deinterlacing and progressive processing. It seamlessly integrates with other MainConcept Video Encoder Plugins for FFmpeg, plus FFmpeg's built-in components, such as audio decoders, demultiplexers and many other components required for decoding, playback or transcoding.

PREVIEW MODES FOR ACCELERATED DECODING

The MainConcept HEVC Decoder Plugin for FFmpeg offers fast Preview Modes for significantly enhanced decoding performance in video editing, surveillance and monitoring solutions. Using this feature, the decoder skips or simplifies some steps in picture decoding for accelerated processing of 4:2:0 8-bit (Main), 4:2:0 10-bit (Main 10), 4:2:0 12-bit (Main 12) and 4:2:2 8-bit (Main 4:2:2), 4:2:2 10-bit (Main 4:2:2 10) as well as 4:4:4 10-bit (Main 4:4:4 10), 4:4:4 12-bit (Main 4:4:4 12) profile video streams.



The MainConcept HEVC Decoder also comes as part of the full-featured [HEVC/H.265 Decoder SDK](#).

PROFESSIONAL BROADCAST, PRODUCTION AND OTT FORMAT COMPLIANCE

EASY TO INTEGRATE

A simple plugin approach brings MainConcept® encoders into your new or existing FFmpeg environment

FAST PREVIEW MODES

Special preview modes for improved decoding speed in video editing, surveillance and monitoring

PRODUCTION & BROADCAST FORMAT SUPPORT

Decoding of Sony XAVC-HS, Canon XF-HEVC, Nikon N9, Panasonic G5, MPEG-DASH, Apple HLS, etc. HEVC/H.265 video streams

KEY FEATURES

- Main, Main 10, Main 12 4:2:0 / 4:2:2 / 4:4:4 profile support
- Progressive and interlaced support, including deinterlacing
- Hardware video decoding using Intel Quick Sync Video or NVIDIA NVDEC
- Straightforward integration with MainConcept Video Encoder Plugins for FFmpeg plus FFmpeg's built-in components

OPTIMIZE WITH MAINCONCEPT PROFESSIONAL SERVICES

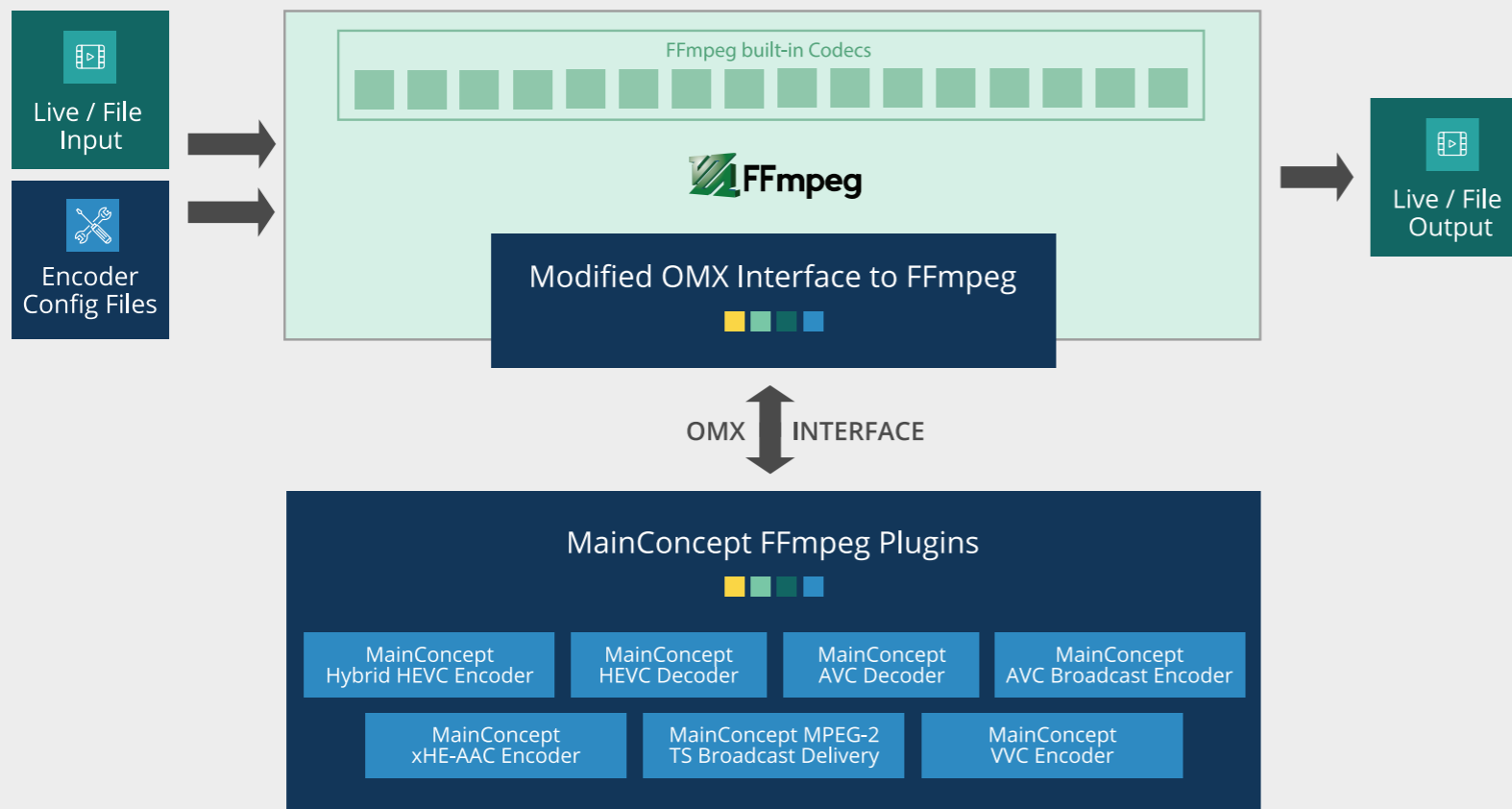
OPERATING SYSTEM

- Microsoft Windows 8, Windows 10 (64-bit, x86)
- Linux x86 Ubuntu 16.04 LTS, CentOS 7.4 glibc 2.17 (64-bit)
- Linux ARM Ubuntu 18.04 glibc 2.27, Ubuntu 20.04 glibc 2.31, CentOS 8 glibc 2.28 (64-bit)

MainConcept AVC Decoder Plugin for FFmpeg

High Performance Decoding and Transcoding for Professional FFmpeg Workflows

FFmpeg Network Diagram



MAINCONCEPT FFmpeg PLUGINS

The MainConcept FFmpeg Plugins are a highly flexible product line to use the industry-leading MainConcept libraries seamlessly in FFmpeg-based use-cases and environments. The simple plugin approach for fast integration into FFmpeg leads to quick results without the need to change your workflow. Full parameter control of the MainConcept SDK libraries in combination with FFmpeg's built-in components brings world-class video and audio quality to your solution or service. MainConcept FFmpeg Plugins are free to try and easy to integrate into your workflow.

ABOUT MAINCONCEPT

MainConcept provides audio and video codec solutions that fuel creativity and business across the globe—from professional video production, multimedia, broadcast, digital signage, and gaming to the medical and security verticals. Our software development kits, transcoding applications and plugins deliver the simplicity you need with the customer experience you deserve. Since 1993, MainConcept codecs have been used by hundreds of organizations including Adobe, Autodesk, Corel, Encoding.com, Endeavor Streaming, Grass Valley, Intel, MAGIX, Nikon, PlayBox Neo and Soliton. For more information, visit www.mainconcept.com.

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MORE INFORMATION

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