

# MainConcept AVC 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.

## AVC/H.264 DECODING FOR PROFESSIONAL USE-CASES

The AVC Decoder Plugin for FFmpeg allows content producers and broadcasters to use MainConcept's market-proven AVC/H.264 decoding technology natively within an FFmpeg workflow or service. The plugin supports most H.264 formats in use today, e.g. professional camcorder video streams, such as Nikon N9, Sony XAVC, Panasonic P2 AVC-ULTRA, RP 2027 AVC-Intra, digital TV content, such as DVB or ATSC, but also OTT streaming formats like MPEG-DASH and Apple HLS. Moreover, the plugin can decode consumer footage like AVCHD or Blu-ray video streams.

## CHOOSE THE BEST FROM MAINCONCEPT & FFmpeg

The easy-to-integrate FFmpeg Plugin offers decoding of AVC/H.264 video streams. 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.

## PROFILE & BIT DEPTH SUPPORT FOR EVERY USE-CASE

The MainConcept AVC Decoder Plugin for FFmpeg offers the same profiles and bit depths parameters as available in the MainConcept SDKs. It allows decoding of Baseline, Main, High as well as High 4:2:2 / 4:4:4 profile streams. Optimized for most efficient CPU usage, the decoder can easily be applied in your FFmpeg workflow or service to support 8-bit, 10-bit and 12-bit content.



The MainConcept AVC Decoder also comes as part of the full-featured [AVC/H.264 Decoder SDK](#).

## OPERATING SYSTEM

- Microsoft Windows 10, Windows 11 (64-bit)
- Linux x86 Ubuntu 20.04 LTS glibc 2.31, Rocky Linux 8 glibc 2.28 (64-bit)
- Linux ARM Ubuntu 20.04 glibc 2.31 (64-bit)
- Works with FFmpeg 4.4 (Rao), FFmpeg 6.0 (Von Neumann) or FFmpeg 7.0 (Dijkstra)

## PROFESSIONAL BROADCAST, PRODUCTION & OTT FORMAT COMPLIANCE

### EASY TO INTEGRATE

A simple plugin approach brings MainConcept® decoding into your new or existing FFmpeg 4.4 (Rao), 6.0 (Von Neumann) or 7.0 (Dijkstra) environment

### COMMON PROFILE & BIT DEPTH SUPPORT

Support for Baseline, Main, High, High 4:2:2 / 4:4:4 profile and 8-bit, 10-bit or 12-bit

### PRODUCTION & BROADCAST FORMAT SUPPORT

Decoding of Sony XAVC, Panasonic P2 AVC-ULTRA, RP2027 AVC-Intra, DVB, ATSC, MPEG-DASH, Apple HLS, etc. AVC/H.264 video streams

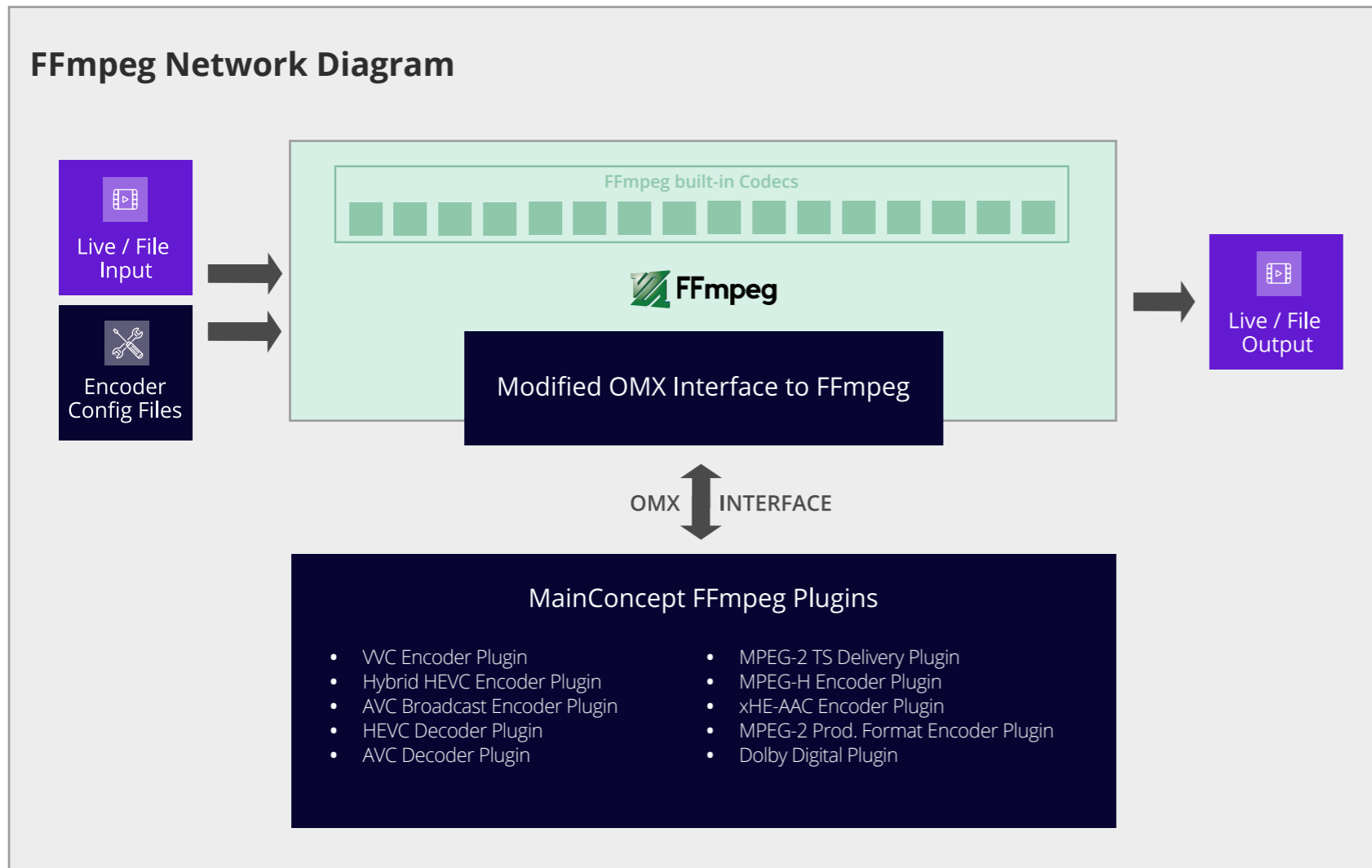
### KEY FEATURES

- Optimized for most efficient CPU usage
- Low Delay flag
- Hardware video decoding using AMF AMF, 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

# MainConcept AVC Decoder Plugin for FFmpeg

High Performance Decoding and Transcoding for Professional FFmpeg Workflows



## MAINCONCEPT FFMPEG PLUGINS

The MainConcept FFmpeg Plugins are a highly flexible product line that enable you 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

Since 1993, MainConcept has provided best-of-breed video/audio codec solutions that fuel creativity and business globally for professional video production, multimedia, broadcast, digital signage, gaming, medical and security industries. Our software development kits, transcoding applications and plugins are used across industry verticals to meet an ever-expanding list of use cases. With world-class engineering, exquisite attention to detail, and best-in-class support and professional services, we are constantly innovating to deliver you the simplicity you need with the customer experience you deserve. MainConcept codecs are engineered to surpass the challenges of even the most demanding use cases and are used by organizations such as Adobe, AVID, Autodesk, Corel, Dalet, Endeavor Streaming, Globo, Grass Valley, Intel, MAGIX, Nikon, PlayBox, Soliton, Sony, Telestream, V-Nova and Wowza. For more information, visit [www.mainconcept.com](http://www.mainconcept.com).

### CONTACT

info@mainconcept.com

### MORE INFORMATION

[www.mainconcept.com/ffmpeg](http://www.mainconcept.com/ffmpeg)

### MAINCONCEPT GMBH

Elisabethstr. 1  
52062 Aachen, Germany

### MAINCONCEPT LLC

11440 W. Bernardo Court, Suite 300  
San Diego, CA 92127, USA

### MAINCONCEPT JAPAN

Building 2, Nippo Shin-Osaka  
1-8-33 Nishimiyahara, Yodogawa-ku, Osaka 532-0004, Japan