### MAINCONCEPT

## **NAB 2025** April 6 – 9, 2025

mainconcept.com



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- Partners and portfolio
- SDKs and more
- MainConcept Live Encoder
- <u>Plugins</u>
- Codec features



abulous

NEVADA

### Notable news

### SIGNIFICANT HEVC BITRATE SAVINGS

MainConcept HEVC continues to show its worth across 4:2:2 and 4:2:0 10-bit

**20% bitrate savings** compared to x265

**Fundamental CDN cost savings** with MainConcept HEVC/H.265 UNIQUE CODEC FEATURES

**Easy Video API** – save 75% on integration costs

**MV-HEVC** for Apple Vision Pro

**JPEG XS** for IP workflows

Snapdragon SDK for Windows ARM

### FUTURE BROADCAST TV

Next-gen broadcast enhancement LCEVC SDK with AVC, HEVC & VVC

Officially approved Dolby AC-3 and E-AC-3 processing in FFmpeg

Support for latest German broadcast XAVC XDF-01 production format



## MainConcept HEVC/H.265 Encoder

Up to 20% more efficient than x265

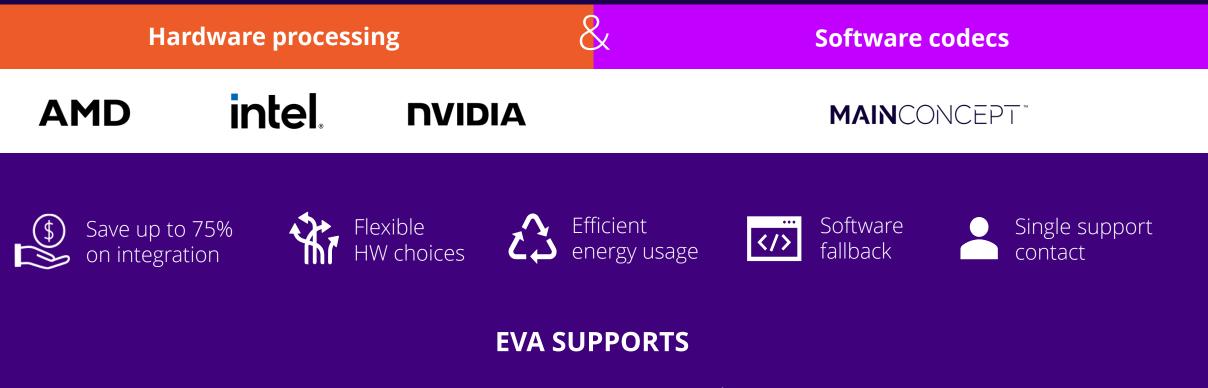
## **Save 20% on your CDN,** savings that can far outweigh the cost of the license

Monthly <b>DATA TRANSFER</b>	Potential Annual <b>SAVINGS</b>
100 TB	\$15,000
1000 TB	\$75,000
5000 TB	\$300,000



## MainConcept Easy Video API (EVA)

A single library with one API that enables software and hardware codecs



AVC/H.264, HEVC/H.265, AV1 and JPEG XS Plus, MainConcept encoders, decoders, color conversion and scaling



# MainConcept EVA

Saving on integration and maintenance

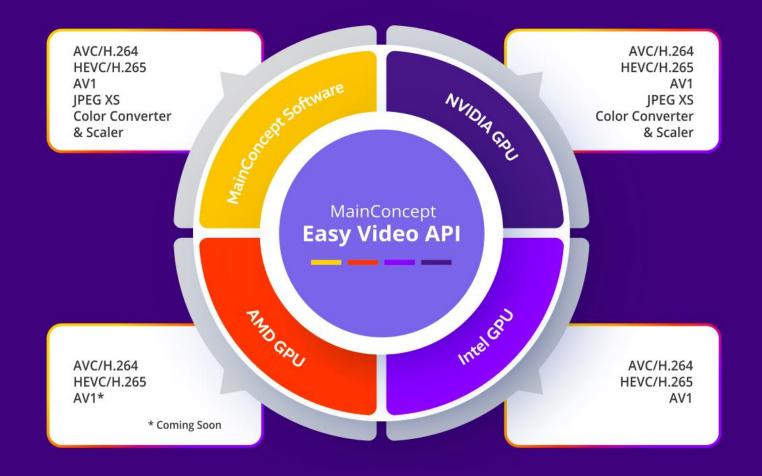
It costs, on average, \$150,000 to integrate one API, and \$50,000 per year to maintain it. How much will MainConcept EVA save you?

> \$50,000 \$150,000 \$300,000 \$450,000 or more?



# MainConcept EVA

Codecs, Converters & Vendors





## MainConcept on Snapdragon

Use Our Codecs on latest Windows ARM devices powered by Qualcomm





**Real-time** encoding & decoding performance



Complete set of libraries for **OTT, broadcast** & **production** 



Legacy, present & future **codec support on Windows ARM** 

### **FEATURES**

- Deploy MainConcept Codec libraries and related components on Snapdragon powered devices running Windows
- Libraries for broadcast, OTT and professional production workflows
- Optimized for Qualcomm's latest flagship CPU
- Snapdragon X Elite X1E-84-100 clearly outperforms the Altra Ampere and previous generation of ARM-based Microsoft Surface
- Enormous cost savings compared to ARM-based laptops from different vendors
- Significant performance gains compared to laptops with similar ARM-based CPUs from other vendors

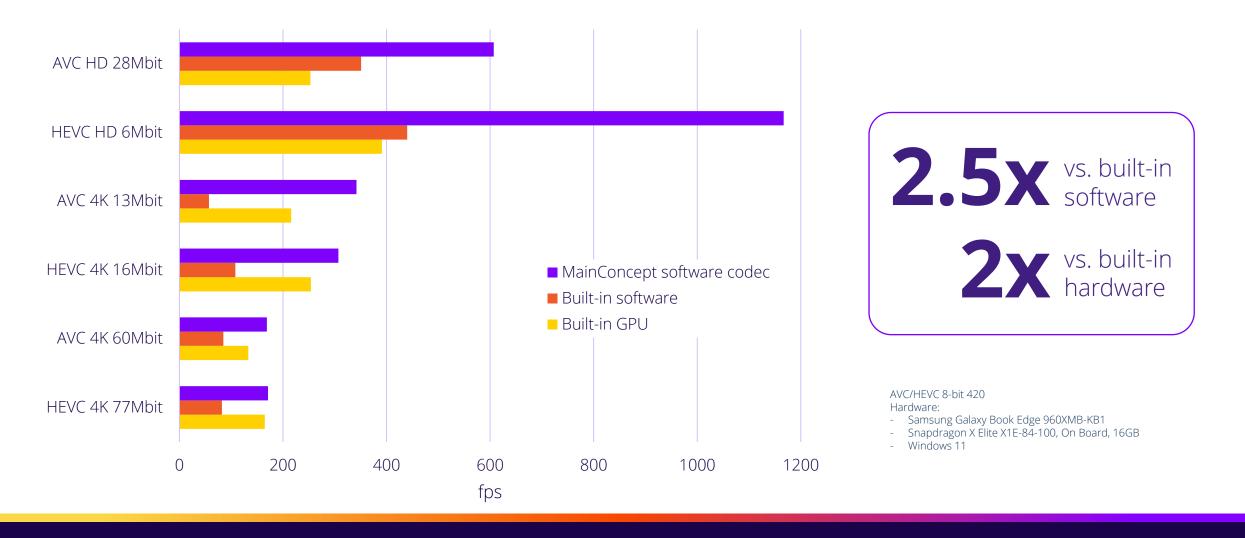
### PACKAGES

HEVC/H.265 Encoder/Decoder AVC/H.264 Encoder/Decoder MPEG-2 Encoder/Decoder DV/DVCPRO Encoder/Decoder MPEG-4 Part 2/H.263 Encoder/Decoder AAC/xHE-AAC Encoder AAC Decoder MPEG Audio Encoder/Decoder Converter & Scaler Pack File Format OTT Content Creation DASH/HLS Demultiplexing/Client SCTE-35 Network Source/Client



## **MainConcept on Snapdragon**

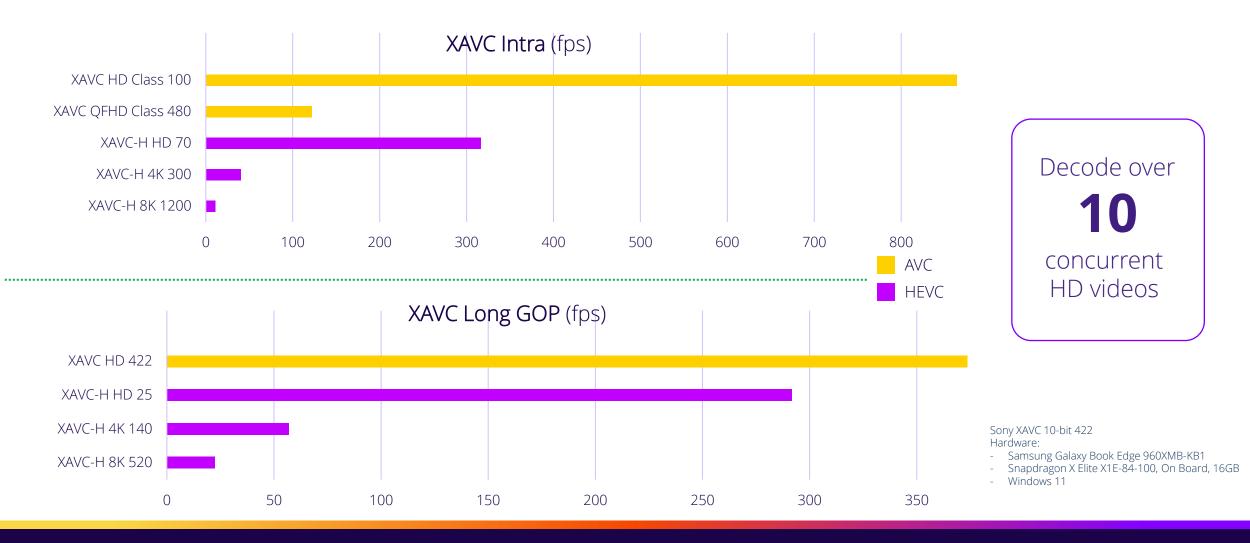
Consumer Grade Decoding: improved performance on Snapdragon X



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## **MainConcept on Snapdragon**

The only solution for professional grade media production





### Interoperable, lightweight image coding for broadcast studios & video networks

### **ENCODER & DECODER SDK FEATURES**

- CPU with SIMD and GPU accelerated processing powered by NVIDIA
- Visually lossless and lightweight compression format
- Low latency processing

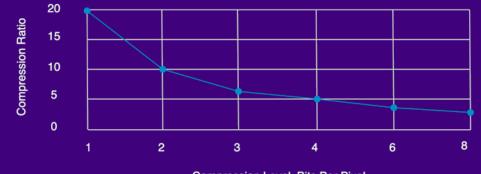
JPEG XS

- Intra-frame codec for professional streaming workflows
- RGB/YCbCr (4:4.4, 4:2:2, 4:2:0) and CFA/RAW up to 16-bit
- MPEG-2 TS & MXF multiplexing & demultiplexing
- Suitable for both live and VoD use-cases
- Seamlessly compliant with existing ST 2110 IP frameworks
- Real-time playback
- Available for Windows & Linux x86



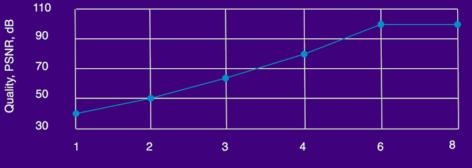
FPS Achieved for Encoding HD 4:2:2 10 bit System: i7-11700K, 16GB, Ubuntu 22.04

#### JPEG XS Compression Ratio : UHD 4:2:2 10 bit





#### JPEG XS Encoding Quality : HD 4:2:2 10 bit



Compression Level, Bits Per Pixel





### **MainConcept + LCEVC** Enhancing current and next-gen codecs





**Lower cost encoding** and reduced bitrates



**Enhances any base codec** up to 45% in compression efficiency



**Playback** even on legacy devices

### **FEATURES**

- Standardized as MPEG-5 Part 2 LCEVC (Low Complexity Enhancement Video Coding)
- Enhancement codec
- Integrated with MainConcept AVC, HEVC and VVC video encoders
- SEI messages carried within base layer or as dual track
- Standards compliant base layer encoded at quarter resolution
- Enhancement layer is typically 15%-20% of the total bitrate
- Supports MPEG-DASH live streaming
- SBTVD TV 2.5 & DTV+ approved
- Available for Windows and Linux x86

#### **AVAILABLE NOW**

+ Live Encoder

### **FEATURES**

- + LCEVC AVC Encoder SDK
- + LCEVC HEVC Encoder SDK
- + LCEVC VVC Encoder SDK





# Dolby Digital Plus<sup>™</sup> Pro Plugins for FFmpeg

The first FFmpeg plugins certified by Dolby



MainConcept handles the **royalties** 



Live and on-demand, on-prem and in the cloud



Integrates with plugins from MainConcept & FFmpeg

DOlby

### **Dolby Digital Plus Pro Encoding**

- AC-3 and E-AC-3 encoding support in FFmpeg
- Officially approved by Dolby
- Output bit rates from 0.032 to 6.144 Mbit/s
- Sample rate 48000 Hz
- Encoding of up to 7.1 audio channels

### **Dolby Digital Plus Pro Decoding**

- AC-3 and E-AC-3 decoding support in FFmpeg
- Officially approved by Dolby
- Sample rates 32000, 44100 or 48000 Hz
- Decoding of up to 7.1 audio channels

### PACKAGES

- + Dolby Digital Plus Pro Encoder
- + Dolby Digital Plus Pro Decoder



## **Immersive Broadcast**

Innovations in OTA & OTT Content Delivery



Traditional & **next-gen broadcast** workflows



Works **on-premise, in-the-cloud** and with **hybrid** workflows



Deployment as **SDKs, applications** or **plugins** 

### **FEATURES**

- Contribution & distribution encoding up to 8K60
- Support for today's & future broadcast codecs like MPEG-2, AVC, HEVC, VVC, MPEG-H, E-AC-3, Dolby Atmos and AC-4
- LCEVC enhancement codec with MainConcept AVC, HEVC & VVC base layers for lower cost encoding and reduced bitrates
- Brazil SBTVD TV 2.5 & DTV+ (TV 3.0) standard compliant
- DVB & ATSC 3.0 ready
- High quality, higher efficiency and reduced bandwidth
- Extended HDR signaling, including Advanced HDR by Technicolor
- Powered by MainConcept EVA for AMD, NVIDIA & Intel QSV hardware encoding & decoding
- MPEG-DASH, Apple HLS, Zixi, SRT, NDI, RTMP, RTSP, HTTP, UDP etc.
- Close partnerships with OTT and TV broadcast solution providers

### **APPLICATIONS**

+ Live Encoder

### **FFMPEG PLUGINS**

- + AVC Broadcast encoder/decoder
- + HEVC encoder/decoder
- + Dolby Digital Plus encoder/decoder
- + MPEG-H encoder
- + xHE-AAC encoder

### SOFTWARE DEVELOPMENT KITS

- + AVC, HEVC & VVC SDKs
- + LCEVC Encoder SDKs
- + Content Creation SDK



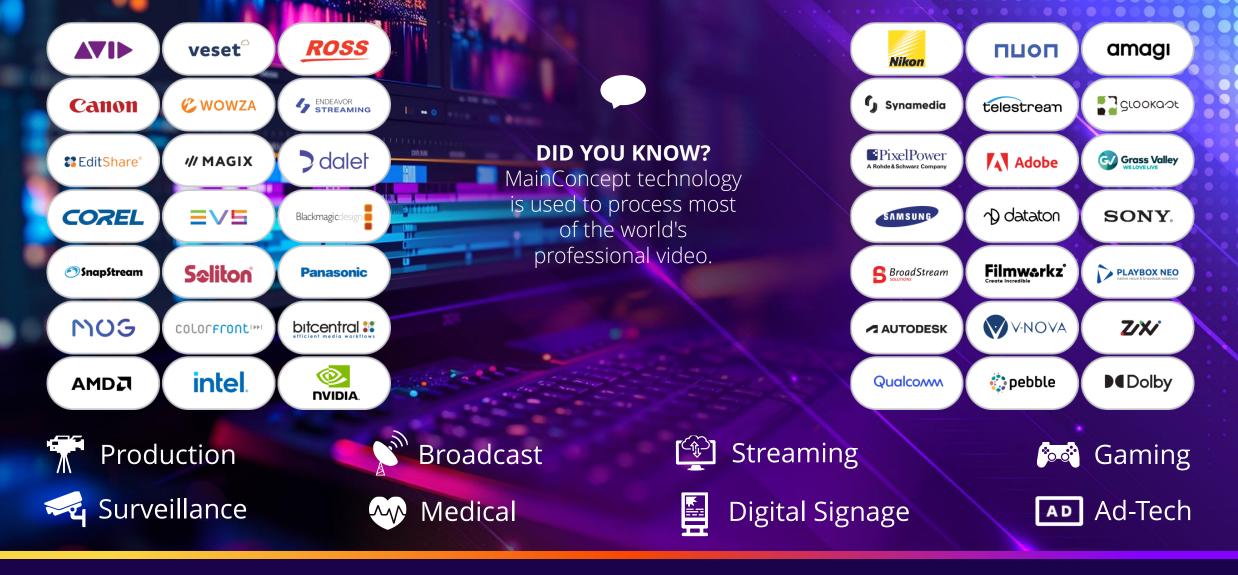
## **Broadcast TV Standards**

Standard	SBTVD	ATSC	ARIB	DVB
Resolution	SD, HD, UHD	SD, HD, UHD, 8K**	SD, HD, UHD	SD, HD, UHD, 8K**
Video	VVC (+LCEVC) AVC (+LCEVC)	HEVC VVC	HEVC VVC*	HEVC VVC*
Audio	MPEG-H Dolby AC-4	MPEG-H Dolby AC-4	MPEG-H Dolby AC-4	MPEG-H AC-3
Enhancements	Advanced HDR by Technicolor (SL-HDR1) Dolby Vision HDR	HDR Advanced HDR by Technicolor**	HDR (HLG, PQ)	HDR Advanced HDR by Technicolor (SL-HDR2)*

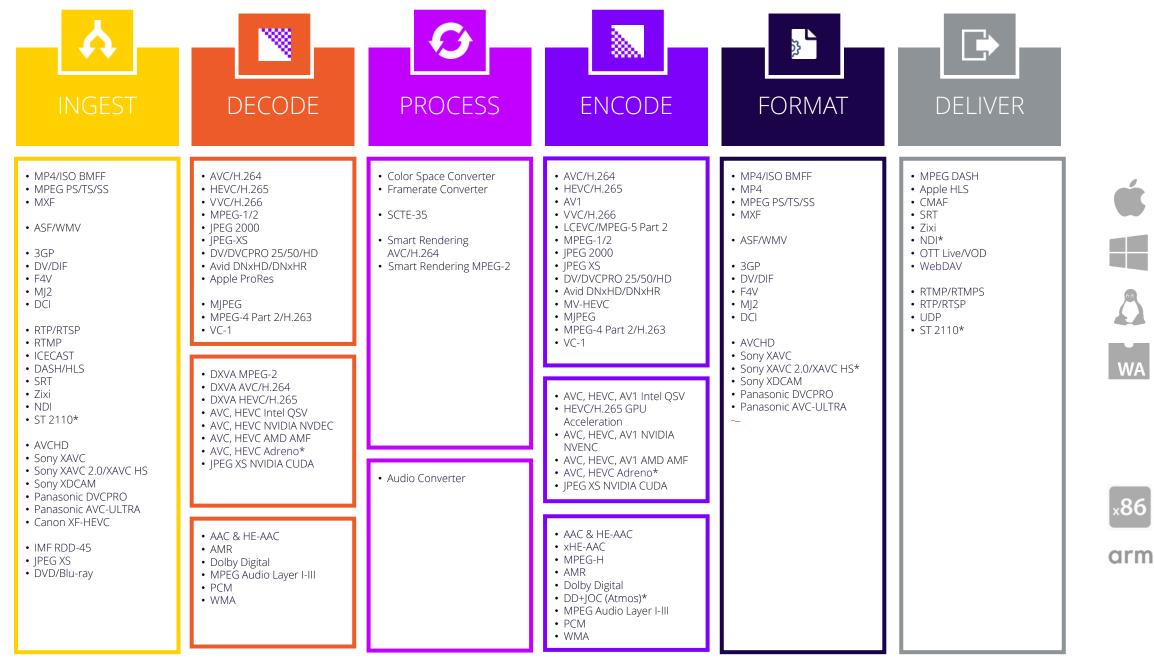
\* Proposed\*\* Future possible



## **Technology Partners**



MAINCONCEPT



\* Future products

## SDKs and more

VVC, HEVC, AVC, LCEVC, MPEG-2, MV-HEVC, JPEG XS, WebAssembly, GStreamer



## JPEG XS

**Real-time processing** 

right from the start

### Interoperable, lightweight image coding for broadcast studios & video networks

**Contribution** format for

low latency use-cases



- CPU with SIMD and GPU accelerated processing powered by NVIDIA
- Visually lossless and lightweight compression format
- Low latency processing
- Intra-frame codec for professional streaming workflows
- RGB/YCbCr (4:4.4, 4:2:2, 4:2:0) and CFA/RAW up to 16-bit
- MPEG-2 TS & MXF multiplexing & demultiplexing
- Suitable for both live and VoD use-cases
- Seamlessly compliant with existing ST 2110 IP frameworks
- Real-time playback
- Available for Windows & Linux x86

PACKAGES

```
+ JPEG XS Encoder & Decoder SDK
```

Output as **complete image** or

split into packets





### VVC/H.266 Next-generation 4K and 8K delivery



Real-time right from the start



**Extended resolution at same bitrate** over existing channels



Ready for **broadcast** and **OTT distribution** 

#### FEATURES

- Live & VOD 10-bit encoding in up to 8K
- HDR signaling
- SABET multi-layer encoding for OTT
- AutoLive to maintain stable encoding frame rate
- Multi-layer coding for ad tech and sign-language
- MPEG-2 TS & MP4 multiplexing
- MPEG-DASH output & MPD generation
- 4:2:0 10-bit real-time playback
- Multi-layer streaming of 8K, 4K, 1080p
- Wide range of standard & advanced encoder and decoder features

#### **AVAILABLE NOW**

- + VVC Encoder SDK
- + WC Decoder SDK
- + VVC Encoder Plugin for FFmpeg
- + Live Encoder with VVC
- + Live Encoder with LCVVC + VVC

### **COMING SOON**

+ LCEVC VVC Encoder SDK



## **HEVC/H.265**

### Vital cost savings with 20% higher efficiency than x265



Preferred **codec for OTT & Broadcast** workflows



**Decode & Encode add-ons** deliver even higher performance



Optimized for low-, adaptive, and high-bitrate **8K quality** 

### **FEATURES**

- Significant bitrate savings resulting in up to 20% CDN cost savings compared to open source
- 8K60 Hybrid GPU accelerated 10-bit live video encoding
- Industry-leading codec for professional 4:2:2 10-bit production formats
- HDR decoder with support for HLG/PQ and SDR conversion
- Extended HDR format signaling for DVB Video encoding
- Available for x86 and ARM chipsets
- Powered by MainConcept EVA featuring AMD, NVIDIA & Intel QSV hardware encoding & decoding
- Canon XF-HEVC, Sony XAVC H/HS, Nikon Z9, Panasonic G5 decoding
- State of the art codec enhancements like SABET, AutoLive or AutoMatch

### PACKAGES

### **HEVC Encoder SDK**

- + 4:2:2 support
- + Hybrid GPU acceleration
- + SABET
- + MV-HEVC encoding

### **HEVC Decoder SDK**

+ WebASM





### **MV-HEVC**

Multi-view content creation for Apple Vision Pro



Real-time processing for the **next-gen VR experience** 



Extended resolution for immersive multi-view encoding



Seamless **playback** on the **Apple Vision Pro** 

### **FEATURES**

- Multi-view HEVC as an extension to the HEVC standard (ISO/IEC 23008-2)
- Fully compliant with Apple HEVC Stereo Video profile of Apple Immersive Video
- Encoding of stereoscopic views of a scene within a single video stream
- Ready-to-use MV-HEVC Main 10 encoding profile
- HDR signaling
- Backward compliance with regular HEVC/H.265 base layer
- MP4 multiplexing
- HLS output & playlist generation
- Cross-platform API for Windows, macOS & Linux for on-premise and cloud deployment

PACKAGES

```
+ MV-HEVC Encoder SDK
```



## AVC/H.264

The industry-leading codec for professional 4:2:2 10-bit production formats

HDR



**2x faster** than open source<sup>1</sup> & **20% faster** than previous generation<sup>2</sup>

2-pass encoding & support for UHD and HDR



AMD, NVIDIA & Intel QSV hardware encoding & decoding

### **FEATURES**

- Precise bitrate adherence for encoding to on-demand video targets
- Standard compliant encoding & decoding of 4:2:2 10-bit formats
- HDR support for HLG and PQ/HDR-10 encoding
- Unrivaled range of encoding presets
- Professional camera support for Sony XAVC & Panasonic AVC-ULTRA
- Frame-accurate smart rendering for AVC-Intra and other pro formats
- Featuring MainConcept EVA, a single API for software and hardware (AMD, NVIDIA & Intel) encoding & decoding
- Full encoding profile XAVC XDF-01 for German broadcast production format compliance

#### PACKAGES

#### **AVC Encoder SDK**

- + AVC Broadcast Encoder
- + SVR360<sup>2</sup>
- + Smart Rendering<sup>2</sup>

#### **AVC Decoder SDK**

+ AVC Broadcast Decoder



2. Compared to previous version of MainConcept AVC



### **MainConcept + LCEVC** Enhancing current and next-gen codecs





Lower cost encoding and **reduced bitrates** 



Enhances any base codec up to **45%** in **compression efficiency** 



Playback even on **legacy** devices

### **FEATURES**

- Standardized as MPEG-5 Part 2 LCEVC (Low Complexity Enhancement Video Coding)
- Enhancement codec
- Integrated with MainConcept AVC, HEVC and VVC video encoders
- SEI messages carried within base layer or as dual track
- Standards compliant base layer encoded at quarter resolution
- Enhancement layer is typically 15%-20% of the total bitrate
- Supports MPEG-DASH live streaming
- SBTVD TV 2.5 & DTV+ approved
- Available for Windows and Linux x86

### **AVAILABLE NOW**

+ Live Encoder

### **COMING SOON**

- + LCEVC AVC Encoder SDK
- + LCEVC HEVC Encoder SDK
- + LCEVC VVC Encoder SDK





### **MPEG-2** Fast, flexible and feature-rich



**2x faster** than the prior generation

Supports **legacy formats** and **frameworks** 



2-pass encoding, 4:2:2 10-bit support

### **PRE-CONFIGURED ENCODING PROFILES**

- MPEG-2 based digital TV formats like DVB and ATSC
- Professional camcorders like Ikegami GF and Sony XDCAM
- Real-time decoding of consumer, professional & broadcast MPEG-2 formats

### **STREAM TYPES & FORMATS**

- Elementary Stream: Generic MPEG-1 and MPEG-2 Elementary Streams
- Transport Stream: Blu-ray Disc, HD DVD, DVB, ATSC, ATSCHI, DVHS, D10 & HD configs
- Program Stream: VCD, SVCD, DVD MPEG-1
- System Stream: Generic MPEG-1 System Streams
- MP4: Sony XDCAM EX
- MXF: Sony XDCAM HD, Sony XDCAM IMX, Ikegami GFCAM, D10

### PACKAGES

- + MPEG-2 Encoder SDK
- + MPEG-2 Decoder SDK
- + MPEG-2 Smart Rendering SDK



## GStreamer

A complete encoding and transcoding pipeline for OTT and broadcast workflows



Develop & deliver **live** and **ondemand** video content



Deliver content to **any device** 



NVIDIA NVENC & Intel Quick Sync Video hardware encoding

#### **BROADCAST DELIVERY**

- Closed caption support
- PID for elementary stream
- Program names in SDT tables
- DVB subtitles support
- SCTE-35 messaging

### Includes

- + HEVC/H.265 video encoder
- + AVC/H.264 video encoder
- + Fraunhofer AAC and MPEG audio encoders
- + MPEG-2 TS multiplexer

### **OTT CONTENT CREATION**

- CMAF-DASH, MPEG-DASH and Apple HLS
- OTT ladder presets
- Multi-language track
- Intel QSV and NVIDIA NVENC
- Hybrid GPU for HEVC (optional)

### Includes

- HEVC/H.265 video encoder
- AVC/H.264 video encoder
- + Fraunhofer AAC encoder
- CMAF/DASH/HLS presets
- + Multiplexers and file generators

### **PRODUCTION FORMAT CREATION**

- Professional production format presets up to 4:2:2 10-bit
- Sony XDCAM and XAVC
- Panasonic P2 AVC-ULTRA & AVC-Intra
- Generic MPEG-2 and AVC/H.264 encoding profiles

### Includes

- + MPEG-2 video encoder
- + AVC/H.264 video encoder
- + PCM audio encoder
- + MXF and MP4 multiplexer



## MainConcept Live Encoder



## Live Encoder

Real-time multi-format video encoding for broadcast & streaming in up to 8K 10-bit



All-in-one **Contribution** and **Distribution** live encoder



Deployment via intuitive **web UI** or powerful **REST API** 



Works **on-premise, in-the-cloud** and with **hybrid** workflows

### **FEATURES**

- Common SDI and IP input sources, incl. real-time preview
- Intel & NVIDIA powered AVC & HEVC hardware encoding & decoding
- MPEG-2, AVC, HEVC & VVC software encoding modes plus LCEVC support
- GPU accelerated HEVC 8K60p encoding on NVIDIA RTX boards
- Object-based MPEG-H 3D audio creation
- MPEG-DASH, Apple HLS, Zixi, SRT, RTMP, RTSP, HTTP, etc. output
- TS over UDP/HTTP output, incl. Program / Service Name, ID, Provider support
- Integrated CDN support for Akamai & Amazon CloudFront
- Redundancy & failover management
- Available for Windows and Linux

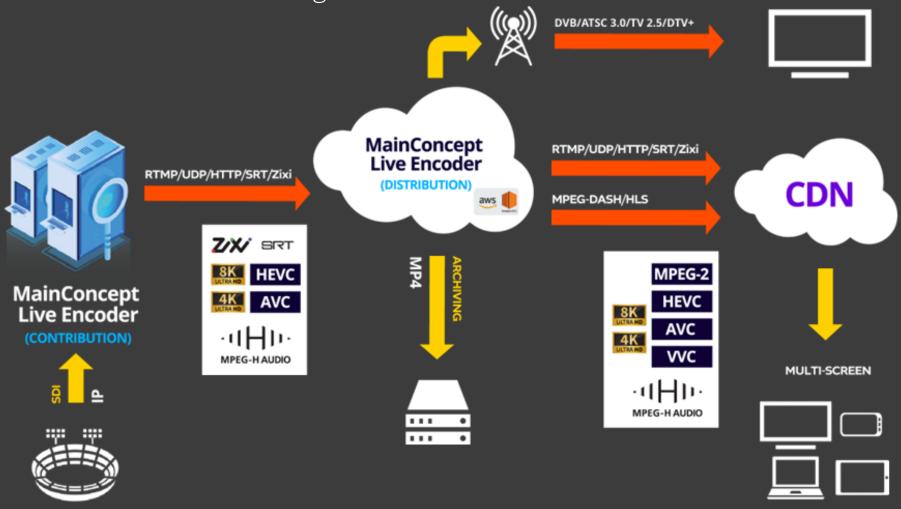
### **COMING SOON**

- + DD+JOC (Atmos) audio encoding
- + Dolby Digital decode & encode
- + NDI output
- + Accelerated AV1 live encoding
- + Full AWS, Google Cloud and Microsoft Azure deployment
- + CMAF-DASH low latency encoding and packaging
- + ST 2110 ingest & output



# Live Encoder Workflow

Contribution & Distribution Encoding

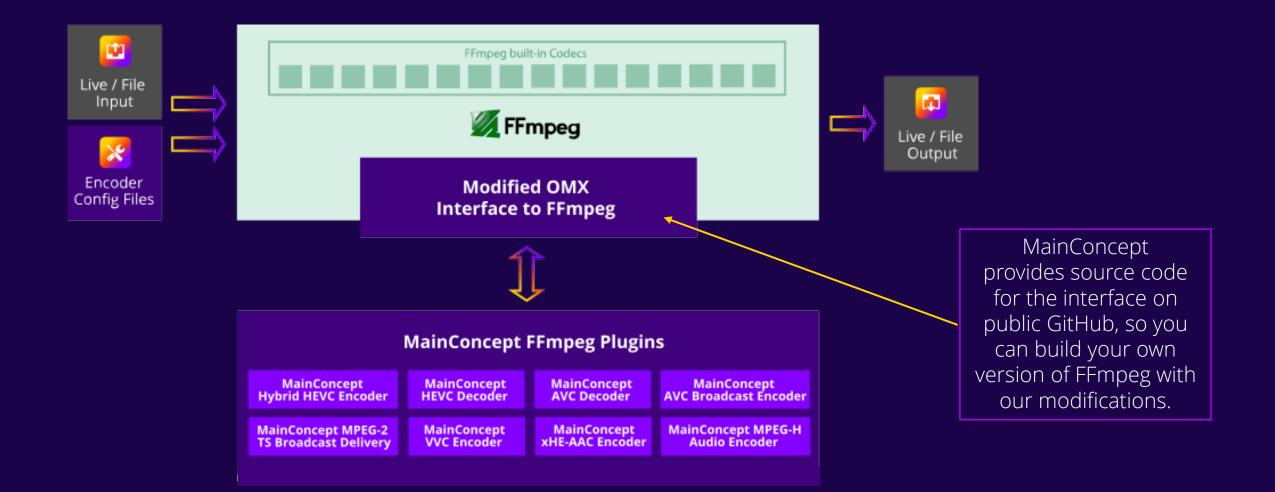




# **FFmpeg Plugins**



## MainConcept FFmpeg Plugins — Architecture





### **MainConcept FFmpeg Plugins** The world's best codecs available in FFmpeg 4.4, 6.0 & 7.0



Video Encoding	Video Encoding	Video Decoding
<ul> <li>Hybrid HEVC codec outperforming x265</li> <li>MPEG-DASH, HLS, Main, Main 10, 4:2:0, 4:2:0</li> <li>GPU-accelerated encoding modes for up to 8K 10-bit live</li> <li>Options for Intel Quick Sync Video, AMD AMF &amp; NVIDIA NVENC</li> <li>MPEG-2 Production Format Encoding MPEG-3 software encoder and MXF Multiplexer natively in FFmpeg</li> <li>Pre-configured profiles for professional Sony XDCAM HD and XDCAM IMX camcorder content creation</li> <li>Ready-to-use encoder presets for Sony XDCAM</li> </ul>	<ul> <li>AVC Broadcast Encoding COMING SOON</li> <li>4:2:2 10-bit and level 6.2 (8K)</li> <li>Verified presets for Sony XAVC &amp; Panasonic P2 AVC-ULTRA</li> <li>XAVC XDF-01 production format for German broadcast NEW</li> <li>MPEG-DASH &amp; Apple HLS</li> <li>Options for Intel Quick Sync Video, AMD AMF &amp; NVIDIA NVENC</li> <li>2-pass encoding for best VOD quality</li> <li>4.2 PAC Encoding</li> <li>VVC/H.266, next-generation codec for OTT and Broadcast</li> <li>Live and VOD workflows</li> <li>VVC/H.266 Main 10 profile, 8-bit and 10-bit, 4:2:0 up to 8K</li> </ul>	<ul> <li>HEVC Decoding</li> <li>Decode and transcode workflows in superior quality and speed</li> <li>Main, Main 10, Main 12, Main 4:2:2 (&amp; 10), Main 4:4:4 10 &amp; 12 profiles</li> <li>Interlaced decoding support, including deinterlacing</li> <li>Hardware acceleration by AMD AMF, Intel Quick Sync Video &amp; NVIDIA NVDEC</li> <li>Decode and transcode workflows in superior quality and speed</li> <li>Baseline, Main, High, High 4:2:2/4:4:4 profiles, 8-bit/ 10-bit/12-bit</li> <li>Hardware acceleration by AMD AMF, Intel Quick Sync Video &amp; NVIDIA NVDEC</li> </ul>

### **MainConcept FFmpeg Plugins** The world's best codecs available in FFmpeg 4.4, 6.0 & 7.0

• Bitrates of 12-500 kb/s for stereo

• Loudness and dynamic range control



AudioProcessing	AudioProcessing	MPEG-2 TS
<ul> <li>MPEG-H Encoding</li> <li>Integration of Fraunhofer's MPEG-H software encoder in FFmpeg</li> <li>Immersive, object-based MPEG-H 3D audio</li> <li>Live encoding workflows</li> <li>Baseline and Low Complexity Profiles</li> <li>Automatic Fallback mode in case of Control Track loss or interruption</li> <li>Standard adopted by ATSC, DVB, TTA, SBTVD and ATSC 3.0 (South Korea) TV standards</li> <li><b>xHE-AAC Encoding</b></li> <li>Integration of Fraunhofer's xHE-AAC software encoder in FFmpeg</li> <li>xHE-AAC, legacy LC AAC, HE-AAC v1 and HE- AAC v2 audio formats</li> <li>VOD and live encoding workflows</li> </ul>	<ul> <li><b>Dolby Digital Plus Pro Encoding NEW</b></li> <li>AC-3 and E-AC-3 encoding support in FFmpeg</li> <li>Officially approved by Dolby</li> <li>Output bit rates from 0.032 to 6.144 Mbit/s</li> <li>Sample rate 48000 Hz</li> <li>Encoding of up to 7.1 audio channels</li> <li><b>Dolby Digital Plus Pro Decoding NEW</b></li> <li>AC-3 and E-AC-3 decoding support in FFmpeg</li> <li>Officially approved by Dolby</li> <li>Sample rates 32000, 44100 or 48000 Hz</li> <li>Decoding of up to 7.1 audio channels</li> </ul>	<ul> <li>Broadcast Delivery</li> <li>Multiplexing support for broadcast delivery formats</li> <li>Ready-to-use multiplexer profiles for ATSC and DVB</li> <li>SPTS and MPTS format support</li> <li>Up to four video and four audio tracks</li> <li>Ready-to-use multiplexer profiles for ATSC and DVB</li> <li>AVC/H.264, HEVC/H.265 and MPEG-2 video</li> </ul>

MAINCONCEPT

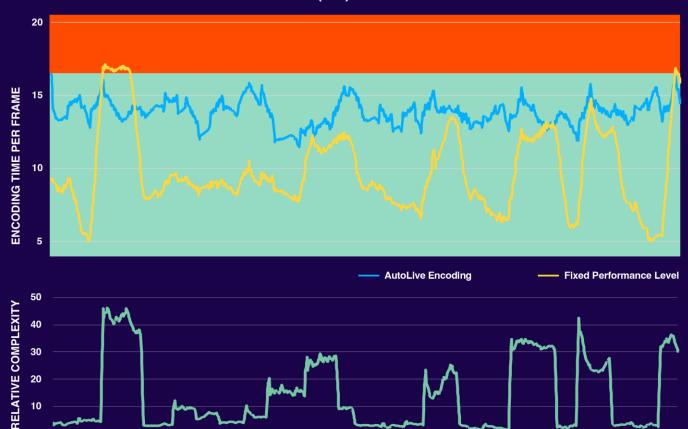
## **Unique Codec Features**

AutoLive Encoding, AutoMatch Encoding, SABET, Proxy Decoding



## **AutoLive Encoding**

Guaranteed stable frame rate and no dropped frames



TIME (MS) PER FRAME

Image complexity changes over time. Complex scenes take more effort to encode. Live encoding MUST ensure constant encoding speed.

AutoLive Encoding adjusts the performance level on EACH FRAME to ensure constant encoding time as well as boost the quality on simple scenes.

**Available for HEVC & VVC** 



# **AutoMatch Encoding**

Encode identical streams for pre-recorded video

### FACT

Content owners have a large library of preencoded assets

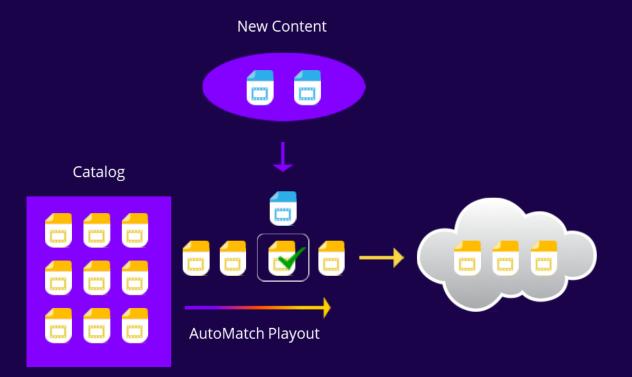
#### CHALLENGE

Add new material to it and "mix-and-match" new and old for seamless playback

#### SOLUTION

Have the encoder match the exact settings of existing material automatically Identical VPS/SPS/PPS

Seamless playback





### **SABET**<sup>™</sup> Smart Adaptive Bitrate Encoding Technology



## Efficient multi-layer encoding for OTT streaming

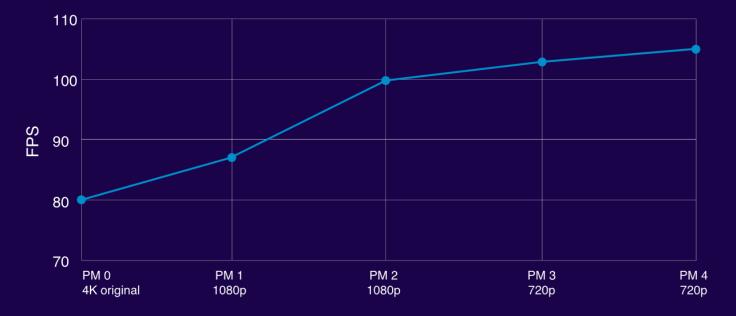
- Full ABR in a single instance
- Shares processing data across up to 12 different profiles
- Significant encoding time reduction
- Available for HEVC & VVC



# **Proxy Decoding**

Accelerated HEVC proxy decoding for fast preview

- Fast decoding of UHD video for lower resolution preview
- Suitable for video editing, monitoring and surveillance workflows
- Compliant with professional HEVC production formats like Sony XAVC HS, Canon XF-HEVC, Nikon Z9, etc.
- Enhanced decoding speed with minimal quality loss
- Decoding modes of 4K content show a performance gain and processing reduction time of over 30%



#### FAST PREVIEW MODE PERFORMANCE VS. QUALITY



## **THANK YOU**

More questions? info@mainconcept.com

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