

MPEG-H SDK

Next-Generation Audio for Live, Broadcast and Streaming Workflows

MPEG-H 3D AUDIO FOR PROFESSIONAL USE CASES

The MainConcept MPEG-H Audio Encoder enables object-based MPEG-H Audio contribution and emission encoding for TV broadcast and OTT streaming workflows. MPEG-H Audio delivers personalized, immersive sound by handling individual sound elements such as dialog, commentary, music and sound effects as separate audio objects.

The MPEG-H Audio Decoder adds contribution-stream decoding to professional MPEG-H production workflows.

MPEG-H CONTRIBUTION & EMISSION WORKFLOWS

The MainConcept MPEG-H Audio Encoder can be used in Contribution or Emission mode. The MainConcept Audio Decoder enables a contribution stream to be decoded as part of a professional production workflow before emission encoding and distribution.

THE NGA CODEC FOR TV BROADCAST

MPEG-H is part of the ATSC (North America), DVB (Europe), TTA (South Korea) and SBTVD (Brazil) TV standards. It is used in South Korea’s terrestrial UHD TV service and Brazil has selected it as the mandatory audio format for its DTV+ broadcast service.

COMPREHENSIVE USER INTERACTIVITY

MPEG-H Audio enables control over audio objects such as language, dialogue enhancement, alternative commentary tracks and other personalization features. The degree of interactivity is defined during authoring and metadata creation.

KEY FEATURES

- MPEG-H Contribution and Emission encoding modes
- MPEG-H Contribution decoder
- Object-based MPEG-H Audio
- Full compliance with MPEG-H 3D Audio Baseline and Low-Complexity Profiles
- Automatic Fallback mode switch in case of Control Track loss or interruption
- Input and output MHAS byte stream
- RAP (Random Access Point) on demand support
- 48 kHz audio sample rate
- Support for CICP-defined loudspeaker and channel configurations
- Live and VOD workflows
- On-premise and cloud deployment

OPTIMIZE WITH MAINCONCEPT PROFESSIONAL SERVICES

MainConcept [Professional Services](#) can help integrate professional codec technology into existing media processing and broadcast workflows.

SYSTEM REQUIREMENTS

	x86
Windows	Windows 10, Windows 11
Linux	Rocky Linux 9, Ubuntu 22.04 LTS – 26.04 LTS

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PACKAGES

- **MPEG-H AUDIO ENCODER**
MPEG-H contribution and emission encoding for professional broadcast, OTT streaming and production workflows.
- **MPEG-H AUDIO DECODER**
MPEG-H contribution-stream decoding for professional production workflows before emission encoding and distribution.

FEATURES

Audio Encoder

- Audio sample rate: 48 kHz
- Little-endian input data for Contribution mode
- Input formats: 8-bit unsigned, 16-bit signed, 24-bit signed integer, and 32-bit floating point
- Maximum channel count: 16 channels including the metadata track for Contribution mode; up to 64 channels including metadata tracks for Emission mode
- Metadata: Control Track (interleaved with audio) for Contribution mode; Control Track, PMD, and S-ADM for Emission mode
- Random Access Points (RAP): independently decodable points in the MHAS; RAP on demand supported

Audio Decoder

- Supported sample rate: 48 kHz
- Input data endianness: Little endian
- Input data format: MPEG-H Audio (ISO/IEC 23008-3)
- Output formats: 16-bit PCM, 24-bit PCM, 32-bit IEEE Float PCM
- Maximum channel count: 16 channels including the metadata track
- Metadata format: Control Track (interleaved with audio)

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, Dalet, Encoding.com, Endeavor Streaming, Grass Valley, Intel, MAGIX, Nikon, PlayBox Neo, Soliton and Wowza. For more information, visit www.mainconcept.com.

More Information

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