

Decoder for Apple ProRes

Native ingest for Apple ProRes video

Apple ProRes is a well-established and widely used intermediate format throughout the broadcast industry. Its high-resolution capabilities and wide chroma sampling support have made it the codec of choice for many video production facilities worldwide. Apple ProRes is natively supported on macOS computers. It used to be available to Windows users via QuickTime.

Apple ProRes was converted from a proprietary Apple format to an official SMPTE approved document (RDD-36). To support this change, MainConcept has introduced a Decoder SDK which allows adding Apple ProRes native ingest and decoding to any transcoding, editing and playback application.

While Apple ProRes video is typically wrapped into a QuickTime (MOV) container, another SMPTE release (RDD-44) allows embedding this format into MXF, making it perfectly suited for professional production workflows. The MainConcept Decoder SDK for Apple ProRes supports both file formats, as well as Elementary Streams, for a seamless integration and widest possible support of all Apple ProRes versions.

For HDR (High Dynamic Range) support, the MainConcept Decoder for Apple ProRes fills dedicated HDR-10, HLG and PQ-10 data structures. The decoder offers several HDR processing algorithms that allow real-time PQ / HDR-10 to HLG, HLG to PQ / HDR-10 and PQ / HDR-10 to SDR conversion.

Like all of the MainConcept SDKs, the Decoder SDK for Apple ProRes is available on Windows, macOS and Linux to enable efficient workflows on premise and in the cloud.

OPERATING SYSTEM

- Microsoft® Windows® 7, Windows 8, Windows 10 (64-bit)
- Apple macOS 10.7 and newer (64-bit, Intel® CPU only)
- Linux Ubuntu 14.04 LTS or CentOS 7.2 and newer (64-bit)

NATIVE INGEST OF APPLE PRORES VIDEO

BENEFITS

- High-resolution capabilities
- Wide chroma sampling support
- Real-time HDR conversion

KEY FEATURES

- Native Apple ProRes Decoding: Precise Apple ProRes decoding in accordance with SMPTE RDD-36. Multi-threaded and optimized decoder delivering amazing speed on any operating system.
- High Dynamic Range: PQ-10 (SMPTE ST.2084) and HLG (ITU-R BT.2100-0) HDR awareness.
- Multiple Formats Support: MP4 / MOV and MXF (RDD-44) container support.
- Proxy Preview Mode: Special acceleration mode for proxy and preview playback of high-res and high-bitrate Apple ProRes content.
- Cross-Platform Coverage: Windows, macOS and Linux (x86, 64-bit). No requirement for QuickTime or any other 3-rd party tools.

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PACKAGES

- **Decoder SDK for Apple ProRes**
Standalone Decoder for Apple ProRes with supported demultiplexers and audio decoders.

STREAM TYPES & FORMATS

MOV / MP4: RDD-36 compliant Apple ProRes streams in MOV container

MXF: Apple ProRes streams in MXF container, compliant with RDD-44

Elementary Streams: Generic Apple ProRes ES

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.

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