

VC-3 FOR AVID DNx

Simplifying integration with Avid professional production formats

The MainConcept VC-3 SDK Packages for Avid DNx are software-only solutions which enable application developers to integrate with production tools like Avid Media Composer and Avid Interplay storage solutions or cameras which store media in either of these formats. Avid DNx is based on the SMPTE ST 2019-1:2026 + Amd 1:2023 specification.

PROFESSIONAL PRODUCTION FORMAT COMPLIANCE

DNx supports 8-bit, 10-bit, and 12-bit depth with 4:4:4, 4:2:2, and 4:2:0 chroma sampling, with resolutions up to 8K (7680 x 4320 pixels). The SDKs support wrapping and unwrapping DNx content in and from MXF containers.

PACKAGES

VC-3 Encoder SDK for Avid DNx

Complete VC-3 Encoder with Avid DNx profile support, including audio encoder and multiplexer.

VC-3 Decoder SDK for Avid DNx

Complete VC-3 Decoder with Avid DNx support, including audio decoder and demultiplexer.

STREAM TYPES & FORMATS

Elementary Stream: Generic VC-3e Elementary Streams

MXF: Avid DNx

PROFESSIONAL ENCODING AT ITS BEST

BENEFITS

- Professional production format
- High-resolution capabilities
- Wide chroma sampling support

KEY FEATURES

- Compliant with Avid production tools like Media Composer and Interplay
- Ready-to-use Avid DNx profiles
- Up to 8K resolution support
- MXF file format support
- Improved colorimetry handling

OPTIMIZE WITH MAINCONCEPT PROFESSIONAL SERVICES

SYSTEM REQUIREMENTS

	x86	ARM
Windows	Windows 10, Windows 11	Windows 11 ARM
Linux	Rocky Linux 9, Ubuntu 22.04 LTS – 26.04 LTS	Ubuntu Arm 20.04 LTS – 24.04 LTS
macOS	macOS 14 Sonoma, macOS 15 Sequoia	macOS 15 Sequoia, macOS 26 Tahoe

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ENCODER FEATURES

- Full compliance with Avid production tools
- Resolution up to HD and 4K
- Profiles for all formats defined by Avid
- Internal frame buffering for accelerated encoding
- Accelerated color conversion routines
- MXF multiplexing support, incl. the ability to set the colorimetry at container level

DECODER FEATURES

- Full compliance with AVID production tools and professional cameras recording DNx media
- Real-time decoding / playback support
- MXF Demultiplexing of DNx media, plus correct return of colorimetry information

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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