

VELA

PROFESSIONAL HIGH DEFINITION DECODER

ArgoNavis Decoding System

MPEG-2

H.264

ProRes

HD

The ArgoNavis decoding system is an advanced professional standard definition and high definition decoder with multi-format decoding capability. This latest entry to the Vela family of decoders is the perfect solution for those looking to handle content in both SD (standard definition) and HD (high definition) formats, with support for the decoding of MPEG-2, H.264 (MPEG4 Part 10 AVC), Apple® ProRes, VC1, and many others.

With the innovative ArgoNavis solution, users can decode video in either SD and HD formats, giving them greater flexibility for content playback as they migrate between formats. Content can easily be up or downscaled providing even greater ability to meet the changing needs of operators.

Likewise, the ArgoNavis eliminates the need to perform time consuming processes such as transcoding and the excessive computing resources these processes consume. With Vela's ArgoNavis all of the common broadcast, professional, and consumer formats are supported. Support for a multitude of wrappers including MPEG2 TS, PS, ES, MP4, MOV/Quick-time, AVI, MXF and many others.

The ArgoNavis decoding system supports a multitude of other professional quality features, such as HD/SD SDI output, genlock, component outputs, composite output, HDMI output, embedded audio (8 channels with 16 channel option), analog stereo audio, AES EBU digital audio, NTSC, and PAL formats.

The ArgoNavis supports Graphics Overlay features such as 608 and 708 CC decode and overlay (open captions), Timecode overlay, Frame Count overlay, and Title and Action Safe Area overlay.

Software support includes an integrated, easy-to-use GUI, a comprehensive set of video management tools enabling effortless decoding.

APPLICATIONS

BROADCAST

MEZZANINE FILE PLAYBACK

ADVERTISING

CONTENT DISTRIBUTION

DIGITAL SIGNAGE

STUDIO CONTRIBUTION

NEWS DISTRIBUTION

AT A GLANCE

- HD/SD MPEG2/H.264/VC1/PRORES**
- MPEG-2 TS, PS, MP4, MOV, MXF, AVI**
- HD/SD SDI OUTPUT**
- HDMI AND ANALOG OUTPUTS**
- PLAYS HD OR SD FILES**
- 4:2:0/4:2:2 HD**
- 4:2:0 SD**
- 708/608 CC DECODE AND OVERLAY**
- GRAPHICS OVERLAY**
- GENLOCK**



ArgoNavis SD/HD Decoder, Model 4000-2187-3



FEATURES

ArgoNavis Decoder

PROFESSIONAL HIGH DEFINITION DECODER

**MPEG2
AVC
ProRes**



- Multi-Format Decoding
- HD or SD output via SDI
- Composite, YUV/RGB
- HDMI
- 708/608 CC decode with overlay (open captions)
- 608 Line 21 Closed Captioning Insertion
- Genlock
- Mezzanine File Playback
- SD to HD or HD to SD conversion
- MPEG2 Decoding over 80 Mbps
- AVC Decoding
- Apple ProRes422 Decoding

- Apple QuickTime
- DV 50/100 Decoding
- MXF Support
- MPEG-2 TS, PS, ES support
- MP4, MOV/Quicktime, AVI Support
- Dolby® Digital pass through
- PCIe x1 Based Design
- Easy-to-use end-user GUI includes PlayAdvantagePlus modules from Vela's MediaAdvantage® Software
- Powerful API (available through optional Vela SDK) includes modifiable sample applications with source code and full documentation.

SPECIFICATIONS

VIDEO

- Decodes all ATSC HD standards
- Serial Digital Interface (SDI) video: SMPTE 292M (HD) & SMPTE 259M (SD)
- Composite analog (SMPTE RS170A)
- YUV/RGB analog
- HDMI
- Genlock input: Composite, 1.0V p-p, 75 ohm

AUDIO

- Digital AES/EBU Audio
- Balanced Analog Stereo Audio
- Embedded Audio (8 Channels)
- Dolby Digital (ac-3) bitstream out
- MPEG-1 layers I and II
- MPEG-2/4 AAC-LC 2/5.1 Channel
- MPEG-4 AAC Plus (AAC SBR) 2/5.1 Channel
- SMPTE 302M PCM

DISPLAY RESOLUTIONS

- 1080P: 24
- 1080i: 25/50, 29.97/59.94, 30/60
- 720p: 50, 59.94, 60
- 480i: 29.97/59.94
- 576i: 25/50

DECODE FORMATS

- HD MPEG-2 4:2:0 and 4:2:2, Main and High Level
- SD MPEG-2 4:2:0 Main Profile. Main and High Level
- H.264 (AVC MPEG4 Part 10) Main and High Profiles
- Apple ProRes 4:2:2 and QuickTime
- VC1 SMPTE421M
- DV/DVC Pro 50/100
- Other Codecs optionally available

CONNECTORS

- HD/SD-SDI, Genlock - BNC
- HDMI
- Analog Audio, Digital AES, Component, Composite - D Sub Multi I/O Connector

SYSTEM SPECIFICATIONS

- 1.5U x 13" (height x depth) rack mountable, ultraquiet chassis
- Windows 7 Professional
- 1 TB Storage
- Operating temperature: +10° to +40° C (+50° to +104° F) @ 80% relative humidity



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