

# VELA

HD/SD H.264/MPEG2 Real Time Encoding Solution

## ArgoNavis SD / HD Encoder

SD / HD

H.264  
MPEG-2

Vela's ArgoNavis Encoding system is a real-time encoding solution designed for a broad range of professional applications. The ArgoNavis system supports High Definition MPEG4 H.264 and MPEG-2 encoding at 1920x1080i and 1280x720P resolutions at both NTSC (29.97) and PAL (25) frame rates, and 1920x1080P encoding at Cinema/Blu Ray (23.976/24) frame rates. Additionally, the ArgoNavis HD Encoder supports Standard Definition encoding profiles in both NTSC and PAL, making it one of the most flexible encoding solutions on the market.

The ArgoNavis Encoding system supports professional features such as 708 and 608 closed captioning, capture of up to 8 channels of audio, video scaling and cropping, and frame accurate encoding using BVW VTR/Device control.

Based on Vela's Emmy winning hardware encoding and video processing technology, the ArgoNavis provides a cost effective, standards based, realtime, encoding/recording solution to Broadcast Professionals, Video Engineers, IT Managers, Medical Personnel, Educators, and anyone requiring high quality video capture and distribution.

The ArgoNavis Encoding System provides optional input/output configurations, including Analog (Composite, S-Video, Component, Audio), HDMI video and audio, and SD/HD SDI providing end users with the flexibility they require.

The ArgoNavis Encoding System includes an intuitive, easy to use interface designed for use with touchscreens, foot switches, or traditional input sources such as a mouse and keyboard, making it the perfect encoding/capture solution.

## APPLICATIONS

**BROADCAST VIDEO**

**ENTERPRISE VIDEO**

**MEDICAL DEVICES**

**ARCHIVING**

**EDUCATION AND TRAINING**

## AT A GLANCE

**HD/SD H.264 AND MPEG-2**

**HD/SD MPEG 2**

**480I/720P/1080I/1080P**

**OPTIONAL INPUT CONFIGURATIONS**

**VIDEO SCALING AND CROPPING**

**708/608 CLOSED CAPTIONING SUPPORT**

**UP TO 8 CHANNELS OF AUDIO CAPTURE**

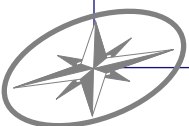
**INTUITIVE EASY TO USE GRAPHICAL USER INTERFACE**

**COMPACT SIZE**

**LIVE AND FRAME ACCURATE ENCODING**



ArgoNavis User Interface



# AUDIO & VIDEO FEATURES

- Realtime encoding of HD and SD H.264 and MPEG-2
- PAL and NTSC television formats
- Cinema/Blu Ray frame rates
- Optional Input/Output Configurations
- Composite and Component Analog Video I/O (Optional)
- HD/SD SDI with Embedded Audio (Optional)
- HDMI Video/Audio Input
- MPEG1 Layer 2 Audio
- AAC Audio
- Up to 8 channels of Audio capture

## ENCODE PARAMETERS

### MPEG Standard

MPEG-2 HD: MP@HL up to 40 Mbps

MPEG-2 SD: MP@ML up to 15 Mbps

H.264 HD: HP@L4.1 up to 20 Mbps

H.264 SD: HP@L3.1 up to 14 Mbps

### Stream Format

MPEG2 Transport Stream (H.264 or MPEG-2)

MPEG2 Program Stream (MPEG-2 Only)

MP4 File format (H.264 Only)

## ArgoNavis SD/HD Encoder

Professional Content Encoder

- Video Cropping
- Video Scaling
- Easy to use and intuitive end-user GUI includes support for a touchscreen or footswitch (Optional)
- File Storage output
- Static Image Capture
- 1920 x 1080P @ 23.976/24
- 1920 x 1080I @ 25/29.97/30
- 1280 x 720P @ 50/59.94/60
- 720x480i @ 29.97
- 720/576i @ 25



# SPECIFICATIONS

## System Specifications

- 1.5U x 13" (height x depth) rack mountable, ultra quiet chassis
- Windows 7 Professional
- 1 TB of Local Storage

## Environment

- Operating Temp: +10° to +40° C (+50° to +104° F)
- Operating Relative Humidity: 8% to 90% (non condensing)

## Video Signal Inputs

- Analog Composite/Component
- HDMI
- HD/SD SDI

## Audio Signal Inputs

- SDI Embedded
- HDMI Embedded
- Balanced/Unbalanced Analog
- Digital AES/EBU

## Connectors

- BNC - SD/HD SDI, Component, Composite
- HDMI
- S-Video
- TRS - Analog and Digital AES/EBU audio

## MPEG Outputs

- Local or Network File Storage



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