

MovieMaker H.264

Real-Time PCIe Encoder



MovieMaker H.264, an H.264 PCI Express encoder, brings advanced compression capabilities to Optibase's line of top quality professional hardware-based PCI boards.

MovieMaker H.264 provides high performance H.264 video compression. It is an ideal video solution for encoding, streaming, and archiving video channels, ensuring excellent image quality in a full range of bit rates, resolutions and frame rates, with a comprehensive encoding application and full-featured SDK.

MovieMaker H.264 offers secondary stream capabilities for encoding two channels from one source simultaneously at high and low bit rates, resolutions and frame rates on a single board.

MovieMaker H.264 can receive inputs from live feeds and save both high and low resolution versions while streaming. It includes S-Video or composite video inputs as well as unbalanced audio inputs. Encoding of two stereo audio channels enables content to be encoded and streamed in two languages. With multi-board support, MovieMaker H.264 provides up to 6 streams from a single PC.

Benefits

- Compact board based on PCI Express technology
- Real-time, broadcast-quality SD encoding
- Hardware-based board for real time performance
- Powerful SDK enables fast integration and development
- Up to 3 boards can be stacked in one PC, to generate up to 6 encoded streams
- Secondary stream functionality allows streaming of a single video source at two different bandwidths
- Support for 2 audio channels

Applications

- Live video streaming of real-time events
- Corporate communications
- Archiving and on-demand viewing
- File creation for archiving and VOD
- High quality video surveillance

Key Features

- Resolutions from Q-CIF to Full-D1
- Concurrent IP streaming and file recording
- Baseline and Main profiles
- S-Video and composite video inputs
- Real-time video preview*
- Compatible with IP set-top-boxes
- Ready to use (plug and play)
- Supports inputs from live feeds
- Offers two audio stereo channels

Technical Specifications

Video Inputs

- NTSC/PAL
- Composite, S-Video

Audio Inputs

- Unbalanced
- 2 stereo pairs

Video CODEC

ISO/IEC 14496-10 (MPEG-4 part 10, AVC) / H.264

- Main profile - level 3.1
- Baseline profile - level 3.1
- Bit-rate range: 64K to 2.5Mbps
- Interlace and progressive support
- Configurable GOP structure with B frame support
- Frame rate control
- VBV size controlled by user
- MBAFF and PAFF support

Audio CODEC

AAC HE - ISO/IEC 14496-3:2001

- AAC-LC
- MPEG-1 L2
- Bit-rate range: 16 - 256 Kbps
- Sampling rate: 32, 44.1 and 48KHZ

Video Resolutions

- Main Profile: Half D1 to Full D1 (Horizontal 720, Vertical 576 or 480)
- Baseline Profile: QCIF up to Full D1

PCI Interface

- PCI Express compliant

Dimensions

- 100 x 200 mm (3.937" x 7.874")

SDK

- Complete Software Development Kit (SDK)
- Standard C/C++ library

Demo Management Application

- Demo application for encoding, streaming and recording

Outputs

- MPEG-2 TS multiplexing, streaming over UDP and file recording

* Check for availability