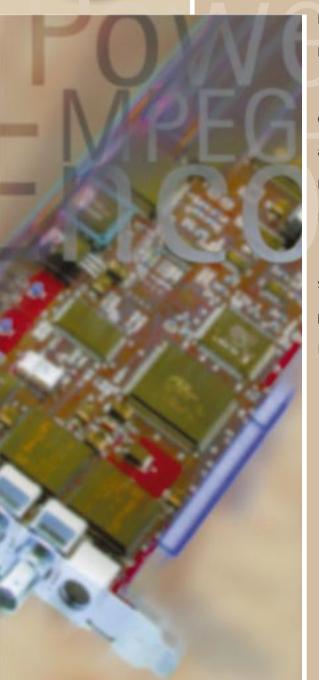


M P E G MovieMaker*

MPEG-1 Encoding Boards



MPEG MovieMaker is a family of powerful, single board

MPEG-1 encoders with features that fit all your

digital video needs. MPEG MovieMaker encoders are ideal for networking, archiving and content creation applications.

Encoded video and audio can be distributed over LAN, T1/E1,

ISDN, and other communication media. This is ideal for

numerous applications,

such as surveillance, video-monitoring facilities, multimedia presentations, computer-based training and Internet or Intranet video publishing.



MPEG MovieMaker is available in two versions:



MPEG MovieMaker Plus

MPEG MovieMaker Plus is a top-of-the-line

MPEG-1 encoding platform with maximum encoding rates of 5 Mbit/s. MPEG MovieMaker Plus has outstanding features which set this encoding board apart. It encodes System, Program and Transport streams which allow developers to integrate digital video into transmission applications. Multi-board support saves installation and administration overhead by letting you install several MPEG-1 encoding boards in a single computer. These features make MPEG MovieMaker Plus the preferred choice for IP and ATM-based video transmission applications where stability, quality and synchronization are crucial.

MPEG MovieMaker XPress

MPEG MovieMaker XPress is an entry-level

MPEG-1 encoding platform for system integrators and application developers. It produces MPEG-1 streams with top bit rates of 3 Mbit/s and is designed for multi-point to center video transmission applications such as video monitoring, tele-medicine and surveillance.

Features

- MPEG-1 video in QSIF and SIF resolutions
- MPEG-1 audio
- Multiplexed System, Program and Transport streams (available only with MPEG MovieMaker Plus)
- Multi-board support (available only with MPEG MovieMaker Plus)
- ➤ SmartMux[™] (Patent Pending) technology: from 5 fps frame sampling in a standard MPEG file
- ▶ EverSync™ (Patent Pending) technology: 24 hours, 7 days a week audio and video synchronization





Versatile Digital Video Solutions

MPEG MovieMaker encoding boards benefit from Optibase's extensive experience in MPEG technology. They are equipped with unique SmartMux technology that allows the creation of MPEG-1 QSIF streams from bit rates as low as 64 Kbit/s. SmartMux encoding creates smooth audio and video streams by overcoming the jerky motion of low bit rate frame sampling. Improved quality at low bit rates lets you optimize transmission by using bandwidth more efficiently.

Optional Software Packages

Optibase's Customer First approach to digital video creation allows you to combine MPEG MovieMaker boards with several software packages, according to your application requirements. Whether setting up a content creation facility, business television application or remote surveillance monitoring system, one of Optibase's software packages gives you the tools you need.



For Video Publishers and Content Creators: MPEG Composer™ Plus

MPEG MovieMaker Plus, together with the award-winning MPEG Composer Plus encoding management application, is a powerful video publishing solution that allows users to distribute video titles on Video CD and CD-ROM discs. MPEG Composer Plus supports VTR device control for frame accurate encoding. It also includes MPEG Organizer™, a comprehensive batch-encoding tool that lets users encode multiple files easily and efficiently.

For Application Developers and System Integrators: Progression™

Developers who want to develop digital video-based applications can subscribe to Progression, Optibase's developers support program, and benefit from specially developed software tools and software development kits. The developers' tools provide complete control over MPEG and streaming properties through a C/C++ interface or DirectShow filter architecture.

For Networking System Integrators: MPEG ComMotion™ UDP

When controlled by MPEG ComMotion UDP, MPEG MovieMaker becomes a sophisticated networking package that supports the DVB (Digital Video Broadcasting) protocol and enables the transmission of video over digital networks, from IP multicasting over LAN and Intranets to ATM and satellite networks. MPEG ComMotion UDP tools include a transmission and receiver application as well as ActiveX development tools that jump-start the development needed to set up transmission applications.





M P E G MovieMaker



Technical Specifications

Standard Compliance ISO/IEC 11172 (MPEG-1)

Input/Output Signal

Video Input NTSC & PAL

Composite Video (BNC) S-Video (Mini-DIN)

Digital Prefiltering (noise reduction, improved encoding)

Unbalanced Analog Stereo Line Input (Mini-Jack) Audio Input

Input Impedance: 600 Ω

Frequency Response: 20 Hz - 20 KHz

Sampling Frequency: 32, 44.1, 48 KHz at 16 bits per sample

Composite Video (BNC) Video Preview Output

Audio Preview Output Unbalanced Analog Stereo (Mini-Jack)

Output Streams

	Standard	Resolution	FP3	Encoding Range
NTSC Video	SIF	352 x 240	5,10,15,18,24,30	90 Kbit/s - 5.0 Mbit/s*
	QSIF	176 x 112	5,10,15,18,24,30	25 Kbit/s - 3.0 Mbit/s
PAL Video	SIF	352 x 288	5, 8, 12, 25	90Kbit/s - 5.0 Mbit/s*
	QSIF	176 x 144	5, 8, 12, 25	25 Kbit/s - 3.0 Mbit/s

*Max. encoding bit rates for MPEG MovieMaker XPress are 3 Mbit/s

Audio Bit Rates

File Format Audio Elementary, Video Elementary, Audio & Video, System, Program, Transport, Video CD

(MPEG MovieMaker XPress does not support Program and Transport streams)

Audio Mode Mono, Dual Mono, Stereo, Intensity Stereo

Hardware

Board Name MPEG MovieMaker Plus, MPEG MovieMaker XPress Function Single Board MPEG-1 Video and Audio Encoder

Bus Standard PCI 2.01 or higher

2 C-Cube VideoRISC Processor CL4020-P208 (VRP3), Video Encoding Engine

Micro Code CLM4111 (QSIF), CLM4120 (SIF)

Audio Encoding Engine Motorola DSP 56002 66 MHz

Power Consumption

Physical Size

Certifications

Installation

Software Included

MPEG Composer Starter

Pentium 90 MHz

Free hard disk space 21 MB

16 MB RAM

Windows 95 or Windows Workstation NT 4.0

One full size PCI slot

CD-ROM

200 W power supply



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Audio input (mini-jack)

Audio output (mini-jack)