



MPEG MovieMaker 200 Basic & Networker



MPEG MovieMaker 200 Publisher



### Technical Specifications

Standard Compliance ISO/IEC 11172 (MPEG-1), ISO/IEC 13818 (MPEG-2)

#### Input/Output Signal

Video Input	MPEG MovieMaker 200 Basic & Networker NTSC & PAL Composite Video (BNC), S-Video (Mini-DIN)
Audio Input	Unbalanced Analog Stereo Line Input (RCA) Input Impedance: 10K Ω Frequency Response: 20 Hz - 20 KHz, +/- 0.25dB Sampling Frequency: 32, 44.1, 48 KHz at 20 bits per sample
Video Preview Output	NA
Audio Preview Output	NA

#### Output Streams

Bit Rates	150 Kbit/s - 5 Mbit/s MPEG-1 1.5 - 15 Mbit/s SP@ML 2 - 15 Mbit/s MP@ML
Audio Bit Rates	32 - 384 Kbit/s MPEG-1
File Format	Audio Elementary, Video Elementary, Audio & Video, System, Program, Transport, Video CD
Audio Mode	MPEG-1 Layer 2: Mono, Dual Mono, Stereo, Intensity Stereo Linear PCM
Video Resolutions	Horizontal 720, 704, 640, 480, 352, 320, 176 Vertical NTSC 480, 240, 112 Vertical PAL 576, 288, 144 Square Pixel NTSC 640x480, 320x240

#### Hardware

Function	PCI Single Board, Plug and Play, MPEG-1 & 2 Video and Audio Encoder
Video Encoding Engine	1 C-Cube MicroSPARC RISC Processor DVXpert
Power Consumption	16.8 W @ + 5 VDC, 1.22 W @ + 12 VDC, 0.48 W @ -12 VDC
Physical Size	Single slot full length PCI board: 312 mm x 106.7 mm, 12.28" x 4.2"

#### Minimum System Requirements

- Pentium II 233 Mhz and higher
- 32 MB RAM
- 2 GB SCSI wide hard disk, 5 MB/s writing data transfer
- Windows Workstation NT 4.0 (or Windows NT 5.0 beta)
- One full size PCI slot
- One free bracket (if using optional preview bracket)
- CD-ROM and 3.5" diskette drive

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MPEG MovieMaker 200 Publisher NTSC & PAL Composite Video (BNC), S-Video (Mini-DIN) SDI (Serial Digital Input) (BNC)
Unbalanced Analog Stereo Line Input (RCA) Input Impedance: 300 Ω Balanced Analog Stereo (XLR) Input Impedance: 600 Ω Digital AES/EBU (XLR) Input Impedance: 110 Ω Frequency Response: 20 Hz - 20 KHz, +/- 0.25dB Sampling Frequency: 32, 44.1, 48 KHz at 20 bits per sample Audio gain control: -90dB to +30dB with 8dB level steps
Composite Video (BNC) (on an optional bracket)
Dolby Digital Compressed (XLR) (On an optional bracket)
Audio Preview(Mini-jack) (On an optional bracket)

150 Kbit/s - 5 Mbit/s MPEG-1 1.5 - 15 Mbit/s SP@ML 2 - 15 Mbit/s MP@ML 8 - 50 Mbit/s ML@422P
32 - 384 Kbit/s MPEG-1, 32 - 640 Kbit/s Dolby Digital
Audio Elementary, Video Elementary, Audio & Video, System, Program, Transport, Video CD
MPEG-1 Layer 2: Mono, Dual Mono, Stereo, Intensity Stereo Dolby Digital 2-Channel: Stereo, Mono (Central) Linear PCM

The information contained herein is accurate at the time of printing and subject to change without notice | Design & Production: Studio Diana Churges



Not all configurations are pre-built with all features. Please consult your regional Sales Manager for availability.

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MPEG MovieMaker 200, Optibase's new generation of MPEG and Dolby Digital™ encoding solutions, uses sophisticated technology to provide you with a wide choice of encoding platforms. MPEG MovieMaker 200 product families offer the full range of video and audio interfaces, video resolutions, audio encoding formats and MPEG multiplexing capabilities - all on a single encoding board. MPEG MovieMaker 200 boards are based on a unique modular design, optimizing them for different markets, applications, bandwidths and price point requirements.



## MovieMaker 200 Basic for Digital Video Creation & Distribution

MPEG MovieMaker 200 Basic is a single channel (one board per PC) MPEG-2 encoding board designed for high quality digital video creation for applications such as program insertion, video server content uploading, point-of-sales and kiosks.

MPEG MovieMaker 200 Basic is available in the following configurations:

- MM200 Basic HD1 (up to Half D-1 resolutions)
- MM200 Basic FD1 (up to Full D-1 resolutions, without VBR).
- MM200 Basic FD1 VBR encodes up to 2/3 D-1 and supports 704 vertical resolution. This platform is also suitable for SVCD title creation.

MPEG MovieMaker 200 Basic boards come bundled with the MPEG Composer™ Starter, Optibase's encoding management application which allows you to test your encoding hardware and immediately initiate creation of digital video files or streams.

For video distribution, MPEG MovieMaker 200 Basic can be used with the optional MPEG ComMotion™, Optibase's video streaming software solution.

MPEG ComMotion features:

- Encoding & transmission of live and pre-recorded files
- Unicast & multicast over IP networks
- Remote management
- Recasting of UDP streams
- ActiveX controls for customized applications
- Support for third party video servers

## MovieMaker 200 Networker for Digital Video Networking and Streaming Solutions

MPEG MovieMaker 200 Networker is ideal for networking applications such as digital video delivery over IP or ATM networks. MPEG MovieMaker 200 Networker offers features such as low delay, multi-board support and unbalanced audio inputs that are specially designed for the needs of video networking applications. MPEG MovieMaker 200 Networker has been successfully integrated into applications such as streaming media, WebTV, distance learning, video surveillance and business TV.

**MPEG MovieMaker 200 Networker is available in the following configurations:**

- MM200 Networker Half D-1 (up to Half D-1 resolutions)
- MM200 Networker Full D-1 (up to Full D-1 resolutions)

MPEG MovieMaker 200 Networker boards come bundled with the MPEG Composer™ Starter, Optibase's encoding management application which allows you to test your encoding hardware and immediately initiate creation of digital video files or streams.

For video distribution, MPEG MovieMaker 200 Networker can be used with the optional MPEG ComMotion™, Optibase's video streaming software solution.

MPEG ComMotion features:

- Encoding & transmission of live and pre-recorded files
- Unicast & multicast over IP networks
- Remote management
- Recasting of UDP streams
- ActiveX controls for customized applications
- Support for third party video servers

## MovieMaker 200 Publisher for High Quality Broadcasting, Networking & Creation

MPEG MovieMaker 200 Publisher is a top quality MPEG-1 and MPEG-2 encoder designed for the content creation broadcast market, where high quality and Dolby Digital audio are required. MPEG MovieMaker 200 Publisher is ideal for DVD and SVCD title creation as well as high quality broadcast applications such as satellite transmissions.

MPEG MovieMaker 200 Publisher supports features designed for top-quality content creation and broadcasting, including SDI inputs and digital audio. For professional DVD title creation and broadcast quality applications, MPEG MovieMaker 200 offers digital and balanced analog audio with 20 bits per sample and a signal to noise ratio greater than 100dB. It offers audio and video preview on an additional preview card, as well as multi-channel support.

**MovieMaker 200 Publisher is available in the following configurations:**

- MM200 Publisher HD1 (up to Half D-1 resolutions) This platform can be upgraded to MM200 Full D-1
- MM200 SVCD (up to 480 vertical resolution, 2/3 D-1 resolution). This platform can be upgraded to MM200 Full D-1
- MM200 Publisher FD1 (up to Full D-1 resolutions). This platform can be upgraded to MM200 Publisher with Dolby Digital support or 4:2:2
- MM200 Publisher FD1 DE (up to Full D-1 resolutions with two channel Dolby Digital audio encoding) This platform can be upgraded to MM200 Publisher with Dolby Digital support or 4:2:2
- MM200 Publisher FD1 DE 4:2:2

MPEG MovieMaker 200 Publisher comes bundled with MPEG Composer 200, Optibase encoding management application.

For video distribution, MPEG MovieMaker 200 Publisher can be used with the optional MPEG ComMotion™, Optibase's video streaming software solution.

### Optional Software Packages and Features

Optibase's Customer First approach to digital video creation allows you to choose the encoding features you need and combine them with several software packages. Under Customer First, you can configure any number of hardware and software combinations to meet a wide variety of applications, bandwidths and price point requirements.

### For Networking System Integrators: MPEG ComMotion™

When controlled by MPEG ComMotion, MPEG MovieMaker 200 boards become a sophisticated networking package that enables the transmission of video over digital networks, from IP multicasting over LAN and Intranets to ATM and satellite networks. MPEG ComMotion tools include a transmission and receiver application as well as remote management, recasting of UDP streams and ActiveX development tools that jump-start the development needed to set up transmission applications.

### For Video Publishers and Content Creators: MPEG Composer™ 200

The MPEG Composer 200 encoding management application is a powerful video publishing solution that allows users to distribute video titles on DVD, SuperVCD, Video CD and CD-ROM discs. MPEG Composer 200 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 and an extensive diagnostic utility. You can use the upgrade utility to upgrade MPEG Composer Starter to MPEG Composer 200 at any time.

### 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.