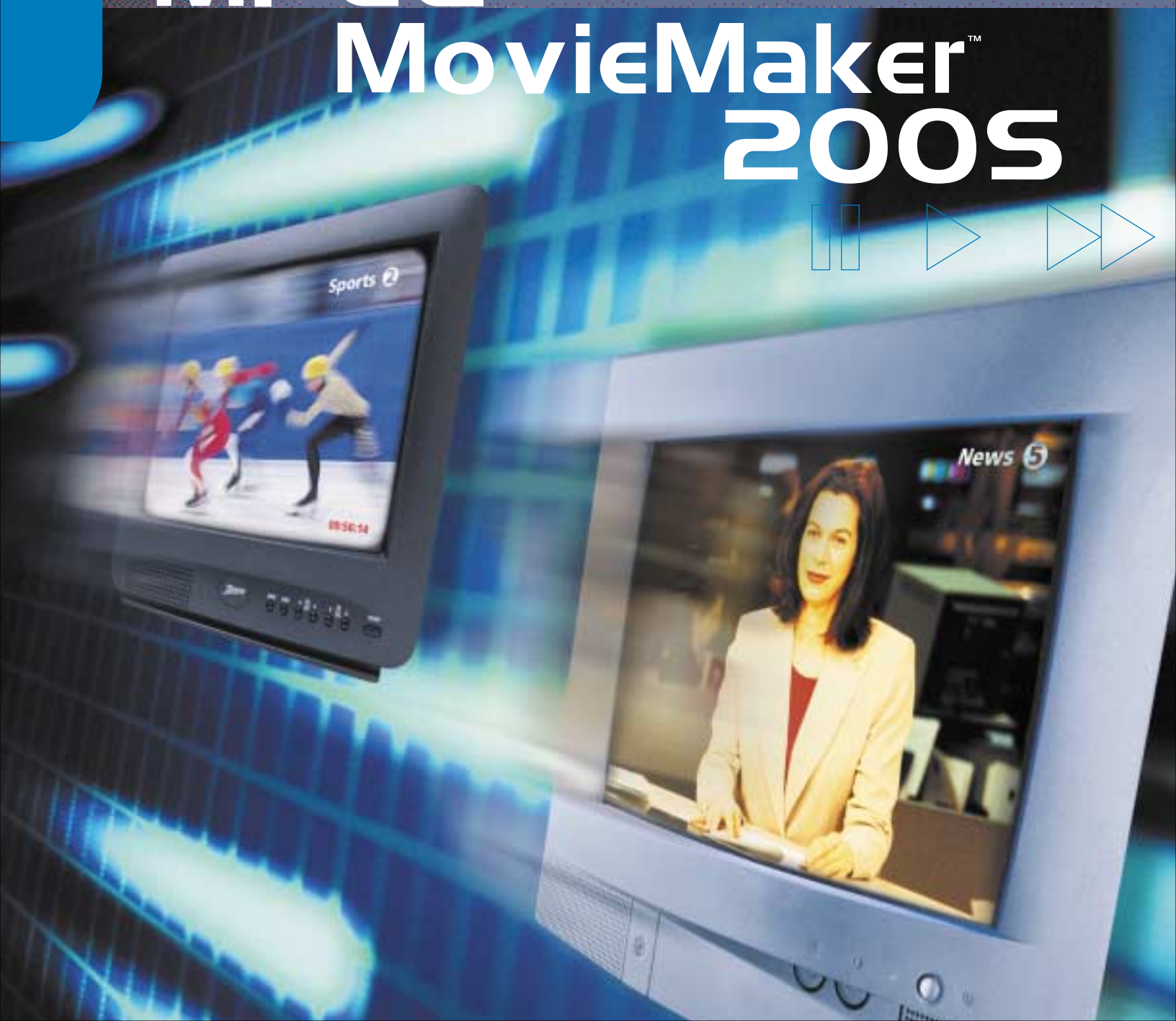
optibase

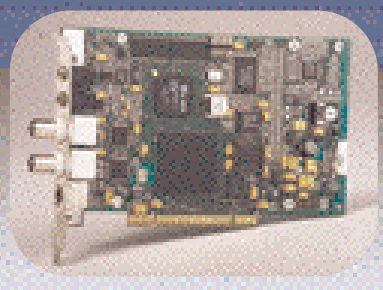
MPEG-1 & MPEG-2

Encoding Platforms

MPEG MovieMaker™ 2005



MPEG MovieMaker 200S



Technical Specifications

The specifications below refer to Networker and Publisher configurations and may not be supported on all MPEG MovieMaker 200S configurations.
Please consult with an Optibase representative regarding the exact features of the configuration you require.

Standard Compliance

ISO/IEC 11172 (MPEG-1)
ISO/IEC 13818 (MPEG-2)

I/O Signal	Networker	Publisher
Video Input	NTSC & PAL Composite Video (BNC) S-Video (MiniDIN)	NTSC & PAL Composite Video (BNC) S-Video (MiniDIN Adapter Cable) SDI (Serial Digital Input) (BNC)
Audio Input	Unbalanced Analog Stereo Line Input (MiniJack) Input Impedance: 10k Frequency Response: 20 Hz - 20 kHz, +- 0.25 dB Sampling Frequency: 32, 44.1, 48 kHz at 20 bits per sample	Unbalanced Analog Stereo Line Input (RCA Adapter Cable) Input Impedance: 300 Balanced Analog Stereo (XLR Adapter Cable) Input Impedance: 600 Digital AES/EBU (XLR Adapter Cable) Input Impedance: 110 Frequency Response: 20 Hz - 20 kHz, +- 0.25 dB Sampling Frequency: 32, 44.1, 48 kHz at 20 bits per sample Audio gain control: -90dB to +30dB level steps
Video Preview Output Audio Output/Preview	Composite Video (BNC) Analog Audio (MiniJack)	Composite Video on an optional Preview card (BNC) Dolby Digital Compressed (adapter cable) on an optional Preview card, Analog Audio Preview (MiniJack) on an optional Preview card.

Output Streams

Video Bit-rates	150 Kbps – 5 Mbps MPEG-1 1.5 – 15 Mbps SP@ML 2 – 15 Mbps MP@ML	150 Kbps – 5 Mbps MPEG-1 1.5 – 15 Mbps SP@ML 2 – 15 Mbps MP@ML
Audio Bit-rates	32 - 384 Kbps MPEG-1	32 - 384 Kbps MPEG-1 32 – 640 Kbps Dolby Digital
File Format	Audio Elementary, Video Elementary, Audio & Video, System, Program, Transport, Video CD	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	MPEG-1 Layer 2: Mono, Dual Mono, Stereo, Intensity Stereo Dolby Digital 2-channel: Stereo, Mono (Central) Linear PCM
Video Resolutions	Horizontal: 704, 640, 480,352, 320, 176 Vertical NTSC: 240, 112 Vertical PAL: 576, 288, 144 Square Pixel NTSC: 640 x 480, 320 x 240	Horizontal: 720, 704, 640, 480,352, 320, 176 Vertical NTSC: 480, 240, 112 Vertical PAL: 576, 288, 144 Square Pixel NTSC: 640 x 480, 320 x 240

Hardware

Function	PCI Single Board, Plug and Play, MPEG-1 & 2 Video and Audio Encoder
Encoding Engine	1 C-Cube MicroSPARC RISC Processor DVXpert-II
Power Consumption	16.8 W @ + 5 VDC, 1.22 W @ + 12 VDC, 0.48 W @ -12 VDC
Physical Size	Single slot half-size PCI board: 174.63mm x 106.7mm, 6.875” x 4.2”

System Requirements

- Pentium II 233 or higher.
- One half-size PCI slot.
- An empty bracket for the optional preview connector.
- 128 MB RAM or more.
- 2 GB wide SCSI hard disk, 5 MB/s writing data transfer.
- Microsoft Windows NT 4.0 with Service Pack 5 or higher.
- At least 9 GB hard disk space on the system hard disk.
- File allocated table (FAT) for the system partition, NT file system (NTFS) for the other partitions.
- VGA card.
- CD-ROM drive.

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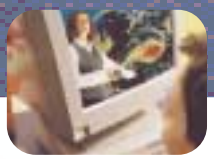

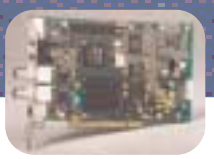

MPEG MovieMaker 200S, Optibase's line of MPEG and Dolby Digital encoding platforms, uses sophisticated technology to provide you with a wide choice of options. MPEG MovieMaker 200S offers the full range of video and audio interfaces, video resolutions, audio encoding formats and MPEG multiplexing capabilities - all on a single half-size PCI encoding board. MPEG MovieMaker 200S boards are fully integrated with Optibase's video streaming and networking platforms.

MPEG MovieMaker 200S boards come bundled with the MPEG Composer™ Starter, Optibase's encoding management application, which allows you to start creating digital video right away and test encoding hardware. MPEG Composer Starter can be upgraded to MPEG Composer 200, a full featured encoding management application.

Applications

- Business TV
- Interactive TV
- WebTV
- Distance Learning
- Surveillance and Monitoring
- Corporate Training

Available Configurations

MPEG MovieMaker 100S

MPEG MovieMaker 100S is a high-quality MPEG-1 only encoding board designed for networking and video distribution applications.

Hardware Options

- MM100S Xpress
- MM100S Plus

MPEG MovieMaker 200S Xpress

Supporting bit rates up to 3 Mbps (MPEG-1) and 6 Mbps (MPEG-2), MPEG MovieMaker 200S Xpress is ideal for video monitoring, telemedicine and surveillance applications.

MPEG MovieMaker 200S Basic

MPEG MovieMaker 200S Basic is a single channel (one board per PC) MPEG-2 encoding platform.

Hardware Options

- MM200S Basic HD1
- MM200S Basic FD1
- MM200S Basic FD1 VBR

eMaker 200S

MPEG MovieMaker 200S Networker

Offering low delay, multi-board support and unbalanced audio inputs, MPEG MovieMaker 200S Networker is ideal for applications such as digital video delivery over IP or ATM networks.

Hardware Options

- MM200S Networker Half D1
- MM200S Networker Full D1

MPEG MovieMaker 200S Publisher

MPEG MovieMaker 200S Publisher supports features designed for top-quality content creation and broadcasting, including SDI inputs and digital audio. Audio and video preview is available via an additional preview card.

MPEG MovieMaker 200S Publisher comes bundled with MPEG Composer 200, Optibase's encoding management software platform that gives you total control over the MPEG encoding process.

Hardware Options

- MM200S Publisher HD1
- MM200S Publisher FD1
- MM200S Publisher FD1 DE
- MM200S Publisher FD1 DE 4:2:2

Additional Software Packages

MPEG MovieMaker 200S boards are designed for use with the following software applications:

MPEG ComMotion Pro - Video Streaming Solution

When controlled by MPEG ComMotion Pro, MPEG MovieMaker 200S boards become a sophisticated video streaming package that enables the transmission of video over digital networks. MPEG ComMotion tools include transmission and receiver server platforms as well as ActiveX development tools that jump-start the development needed to set up streaming applications.

MPEG Composer 200 – Encoding Management Application

MPEG Composer 200 gives you total control over the content encoding process. It lets you compress video content into MPEG digital video formats for streaming over broadband and narrow band networks and store and forward applications.

Optibase Developer Clubs

Progression is a support program that provides system integrators, OEMs and developers with the software tools needed to develop MPEG digital video applications based on Optibase products. By subscribing to Progression, you'll get direct access to Optibase's expertise in MPEG technology and system integration, helping you cut development cycles and get your product to market sooner. Progression subscribers enjoy major benefits including:

- Software tools for developing encoding and decoding solutions based on Optibase hardware.
- Direct access to Optibase support engineers.
- A members-only Progression WWW site for online support and access to the latest tools and utilities.
- A periodical CD-ROM with updated software versions and utilities