



MPEG-2 & MPEG-1

Encoding Platforms

MPEG MovieMaker™ 2005_{and} 1005



MPEG MovieMaker



MPEG MovieMaker 200S and IOOS is Optibase's line of top quality professional MPEG-2 & MPEG-1 encoding platforms. It is ideal for content creation, broadcasting, archiving and video-on-demand applications.

The MPEG MovieMaker 200S and IOOS family

is Optibase's line of MPEG-2, MPEG-1 half-size PCI encoding platforms. The product line offers a full range of video and audio interfaces, video resolutions, audio encoding formats and MPEG multiplexing capabilities. It is fully integrated with Optibase's developer tools and video streaming and networking platforms. MPEG MovieMaker 200S and 100S boards are bundled with the MPEG Composer 200, Optibase's full featured encoding management application.

Applications

- Content creation
- VoD server upload
- Broadcast servers
- Archiving servers upload
- DVD creation

Benefits

- Top-quality video and audio encoding
- Hardware platform providing real time performance
- Wide range of configurations for full flexibility
- Powerful SDK enabling fast integration and development
- Reliable platform with proven track record

er 200S and 100S

Available Configurations

MPEG MovieMaker 200S Publisher

The MPEG MovieMaker 200S Publisher product line offers top-quality, professional encoding solutions. It features SDI inputs, digital audio, balanced analog audio and multi board support.

- MPEG MovieMaker 200S Publisher SDI
 - Up to 10 Mbps
- MPEG MovieMaker 200S Publisher DE
 - 2 channel Dolby® Digital Audio & Dolby® Digital Audio 5.1 pass through
- MPEG MovieMaker 200S Publisher VOD
 - Up to 15 Mbps
 - CableLabs® VOD specification including 528 x 480 resolution
- MPEG MovieMaker 200S Publisher IMX/4:2:2
 - Up to 15 Mbps 4:2:0
 - Up to 50 Mbps 4:2:2
 - Up to 50 Mbps IMX

MPEG MovieMaker 200S Networker

The MPEG MovieMaker 200S Networker offers low latency MPEG-2 streaming, multi board support, analog audio inputs and unbalanced audio inputs.

- MPEG MovieMaker 200S Networker Full D-1
 - MPEG-2 Simple Profile

MPEG MovieMaker 200S Basic

The MPEG MovieMaker 200S product family offers multi-board support, analog audio inputs and unbalanced audio inputs.

- MPEG MovieMaker 200S Basic FD1
 - Up to 10 Mbps
- MPEG MovieMaker 200S Basic VBR 720
 - 720 x 480, 720 x 576 resolutions
 - Real time VBR

MPEG MovieMaker 200S Xpress

The MPEG MovieMaker 200S Xpress is an entry-level professional encoding solution offering analog audio inputs and unbalanced audio inputs.

- MPEG MovieMaker 200S Xpress
 - Up to 6 Mbps

MPEG MovieMaker 100S

The MPEG MovieMaker 100S family provides MPEG-1 encoding solutions.

- MPEG MovieMaker 100S Xpress
 - Up to 3 Mbps MPEG-1
- MPEG MovieMaker 100S Plus
 - Multi-board Support
 - Up to 5 Mbps MPEG-1
 - Advanced multiplexing: program, transport

Technical Specifications

	200S Publisher	200S Networker	200S Basic	200S Express	100S
Standard Compliance					
ISO/IEC 11172 (MPEG-1)	✓	✓	✓	✓	✓
ISO/IEC 13818 (MPEG-2)	✓	✓	✓	✓	✗
Video Inputs					
NTSC/PAL	✓	✓	✓	✓	✓
Composite, S-Video	✓	✓	✓	✓	✓
SDI	✓	✗	✗	✗	✗
Audio Inputs					
Unbalanced - Input impedance 10k Ohm	Input impedance 300 Ohm	✓	✓	✓	✓
Balanced - Input impedance 600 Ohm	✓	✗	✗	✗	✗
Digital AES/EBU - Input impedance 110 Ohm	✓	✗	✗	✗	✗
Preview					
Video Preview Composite Video	✓	✓	✓	✓	✓
Audio Preview Unbalanced	✓	✓	✓	✓	✓
Dolby® Digital Audio AC3 Preview	Optional	✗	✗	✗	✗
Video Parameters					
Frame Sampling	✓	✓	✓	✓	✓
150 Kbit/s – 5 Mbit/s MPEG-1	✓	✓	✓	Max 3 Mbps	Optional
1.5 – 10 Mbit/s SP@ML	✓	✓	✗	✗	✗
1.5 – 10 Mbit/s MP@ML MPEG-2	✓	✓	✓	Max 6 Mbps	✗
1.5 – 15 Mbit/s MP@ML MPEG-2	Optional	✗	✗	✗	✗
8-50 Mbit/s ML@422P MPEG-2	Optional	✗	✗	✗	✗
15-50 Mbit/s IMX	Optional	✗	✗	✗	✗
VBR	✓	✗	Optional	✗	✗
Cropping	✓	✓	✓	✗	✗
Audio Parameters					
32-384 Kbits/s	✓	✓	✓	Max. 224 Kbit/s	✓
MPEG-1 Max.224 Kbits/s					
Freq. Response: 20 Hz - 20 kHz, +/- 0.25dB	✓	✓	✓	✓	✓
Sampling Frequency:					
32, 44.1, 48 kHz at 20 bits per sample	✓	✓	✓	✓	✓
Audio Gain Control:					
-90dB-30dB with 8dB level steps	✓	✗	✗	✗	✗
Resolution					
	NTSC	PAL			
4:2:2	720 x 512,	720 x 608	Optional	✗	✗
FD1	640 x 480,	640 x 576 sq	✓	✗	✗
	704 x 480,	704 x 576	✓	✓	✓
	720 x 480,	720 x 576	✓	Optional	✗
3/4 D1	528 x 480	(NTSC only)	Optional	✗	✗
	544 x 480,	544 x 576	✓	✗	✗
2/3 D1	480 x 480,	480 x 576	✓	Optional	✗
HD1	320 x 480,	320 x 576	✓	✓	✗
	352 x 480,	352 x 576	✓	✓	✗
	368 x 480,	368 x 576	✓	✓	✗
	384 x 480,	384 x 576	✓	✓	✗
Non Std	160 x 240,	160 x 288	✓	✗	✗
	176 x 240,	176 x 288	✓	✗	✗
	320 x 112,	320 x 144	✓	✗	✗
	352 x 112,	352 x 144	✓	✗	✗
CIF	320 x 240,	320 x 288	✓	✓	✓
	352 x 240,	352 x 288	✓	✓	✓
QCIF	160 x 112,	160 x 144	✓	✓	✓
	176 x 112,	176 x 144	✓	✓	✓
File Format					
Audio/Video Elementary	✓	✓	✓	✓	✓
Audio & Video	✓	✓	✓	✓	✓
System	✓	✓	✓	✓	✓
Program	✓	✓	✓	✓	Optional
Transport	✓	✓	✓	✓	Optional
Video CD	✓	✓	✓	✓	✓
MXF	✓	✗	✗	✗	✗
Sony M2P	✓	✓	✓	✗	✗
Audio Mode					
MPEG-1 Layer 2	✓	✓	✓	✓	✓
Mono/Dual Mono	✓	✓	✓	✓	✓
Stereo/Intensity Stereo	✓	✓	✓	✓	✓
Linear PCM 16 Bit	✓	✓	✓	✓	✓
2 Channel Dolby® Digital Audio – Stereo	Optional	✗	✗	✗	✗
Dolby® Digital Audio 5.1 Pass through	Optional	✗	✗	✗	✗

er 200S and 100S

MPEG MovieMaker 200S Publisher

MPEG MovieMaker 200S Publisher is designed for top-quality content creation and broadcasting. It features SDI inputs and digital audio including Dolby® Digital Audio.

MPEG MovieMaker 200S Publisher is available with support for CableLabs® VOD Metadata specification, Sony IMX Video compression and Material Exchange Format (MXF).

MPEG MovieMaker 200S Networker

MPEG MovieMaker 200S Networker is ideal for applications such as digital video delivery over IP networks. It offers features such as low delay and multi-board support and is specially designed for the needs of video networking applications. MPEG MovieMaker 200S Networker has been successfully integrated into applications such as Business TV and distance learning.

MPEG MovieMaker 200S Basic

MPEG MovieMaker 200S Basic is an - MPEG-2 and MPEG-1 encoding platform. It is a cost effective solution ideally suited for content creation applications such as VCD, SVCD and DVD.

MPEG MovieMaker 200S Xpress

MPEG MovieMaker 200S Xpress is an entry-level platform for MPEG-2 and MPEG-1 encoding applications. The MPEG MovieMaker 200S Xpress is ideal for Enterprise, and DVD creation applications.

MPEG MovieMaker 100S

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

Features

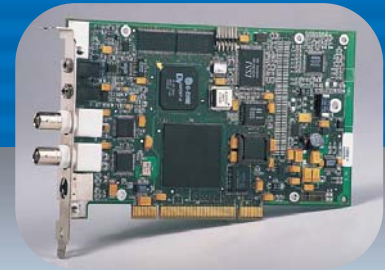
- MPEG-2 and MPEG-1 encoding
- Compact, Half size PCI board
- Dolby® Digital Audio stereo and Dolby® Digital Audio 5.1 pass through
- CableLabs® VOD support
- IMX video encoding
- Material exchange Format support (MXF)
- Multi board support

Developer Tools

Progression is a developer's support program that provides system integrators, OEMs and developers with the development tools needed to develop digital video applications based on Optibase encoding and decoding boards. Progression subscribers enjoy major benefits including:

- SDK for developing encoding and decoding solutions based on Optibase hardware.
- A members-only Progression WWW site for online support and access to the latest tools and utilities.

MPEG MovieMaker™ 200S and 100S



Extended Warranty Programs

Don't be caught off-guard: Ensure that your digital video applications are covered for speedy repair at all times with Optibase's Extended Warranty programs. Now, over and above the basic one-year hardware warranty, you can keep your mind at rest by purchasing one of Optibase's Extended Warranty programs. The Extended Warranty covers repairs and advanced replacement of Optibase hardware, while the Extended Basic Warranty covers repairs only. You can purchase either program for 1, 2, 3 or 4 years.

Corporate Headquarters

7 Shenkar Street
Herzliya 46120, Israel
Tel: +972-9-970-9288
Fax: +972-9-958-6099

North America Headquarters

1250 Space Park Way
Mountain View,
CA 94043, USA
Tel: +1-800-451-5101
+1-650-230-2400
Fax: +1-650-691-9998

info@optibase.com

www.optibase.com



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