



MPEG-2 & MPEG-1
Encoding Platforms

MPEG MovieMaker™ 230



MPEG Movie



The MPEG MovieMaker 230 is the latest addition to Optibase's line of top quality professional MPEG-2 and MPEG-1 half-size PCI encoders. It offers a full range of video and audio interfaces, video resolutions, audio encoding formats and MPEG multiplexing capabilities. With new and improved features, the MPEG MovieMaker 230 is ideal for content creation, broadcasting, DVD and video-on-demand applications.

Advanced Features

MPEG MovieMaker 230 can be configured to receive inputs from live feeds or tapes and to create an MPEG file or stream according to your system requirements. You can select from a wide range of high quality analog or digital interfaces; SDI, YUV and S-Video.

MPEG MovieMaker 230 provides support for up to 2 stereo channels of encoding, thus enabling support for multiple languages. It supports digital input either through AES-EBU or embedded SDI, and analog input as either balanced or unbalanced signals. MPEG MovieMaker 230 compresses the audio data as either MPEG-1 Layer 2 or Dolby Digital, passes through Dolby 5.1, and supports PCM audio.

MPEG MovieMaker 230 is fully integrated with Optibase's developer tools, video streaming and networking platforms and is bundled with MPEG Composer, Optibase's full featured encoding management application.

Applications

- Content creation
- VOD solutions
- Broadcast servers
- Archiving
- DVD creation

Customized Solutions

Optibase's Professional Services capabilities provide development and implementation services for advanced turnkey video solutions. A leader in video innovation, Optibase has the expertise to design and develop customized video solutions that include integration of third-party products.

Maker 230

Available Configurations

MPEG MovieMaker 230 Publisher

The MPEG MovieMaker 230 Publisher product line offers top-quality, professional encoding solutions. It features SDI inputs, digital audio, balanced analog audio and multi-board support. It also offers 2 stereo channel pairs through embedded SDI, digital or analog inputs.

MPEG MovieMaker 230 Publisher SDI

- Up to 10 Mbps
- 2 stereo audio channels
- embedded SDI audio

MPEG MovieMaker 230 Publisher DE

- 4 channel Dolby® Digital Audio & Dolby® Digital Audio 5.1 pass through

MPEG MovieMaker 230 Publisher VOD

- Up to 15 Mbps
- CableLabs® VOD specification including 528 x 480 resolution

MPEG MovieMaker 230 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 230 Networker

The MPEG MovieMaker 230 Networker offers low latency MPEG-2 streaming, multi-board support, analog audio inputs and unbalanced audio inputs.

MPEG MovieMaker 230 Networker Full D-1

- MPEG-2 Simple Profile

MPEG MovieMaker 230 Basic

The MPEG MovieMaker 230 product family offers multi-board support, Composite and YUV video inputs as well as analog and unbalanced audio inputs.

MPEG MovieMaker 230 Basic FD1

- Up to 10 Mbps

MPEG MovieMaker 230 Basic VBR 720

- 720 x 480, 720 x 576 resolutions
- Real time VBR

MPEG MovieMaker 230 Xpress

The MPEG MovieMaker 230 Xpress is an entry-level professional encoding solution offering Composite and YUV video inputs as well as analog and unbalanced audio inputs.

MPEG MovieMaker 230 Xpress

- Up to 6 Mbps

Maker 230

MPEG MovieMaker 230 Publisher

MPEG MovieMaker 230 Publisher is designed for top-quality content creation and broadcasting. It features SDI video and audio inputs, as well as multi-language support.

MPEG MovieMaker 230 Publisher is available with support for CableLabs® VOD Metadata specification and Sony IMX Video compression.

MPEG MovieMaker 230 Networker

MPEG MovieMaker 230 Networker is ideal for applications such as digital video delivery over IP networks. It offers low delay and is specially designed to meet the needs of video networking applications. MPEG MovieMaker 230 Networker has been successfully integrated into applications such as Business TV and distance learning.

MPEG MovieMaker 230 Basic

MPEG MovieMaker 230 Basic is an MPEG-2 and MPEG-1 encoding platform. It is an ideal solution for content creation applications such as VCD, SVCD and DVD.

Now with improved video quality and component YUV input, you get a professional, cost effective solution.

MPEG MovieMaker 230 Xpress

MPEG MovieMaker 230 Xpress is an entry-level platform for MPEG-2 and MPEG-1 encoding applications. The MPEG MovieMaker 230 Xpress is ideal for Enterprise and DVD creation applications.

Features

- Supports inputs from live feeds, files or tapes
- Supports SDI, YUV and S-Video inputs
- Offers two stereo channel pairs through embedded SDI, digital or analog inputs
- Dolby® Digital Audio stereo and Dolby® Digital Audio 5.1 pass through
- Compact, half-size PCI board

Benefits

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

Technical Specifications

	230 Publisher	230 Networker	230 Basic	230 Xpress
Standard Compliance				
ISO/IEC 11172 (MPEG-1)	✓	✓	✓	✓
ISO/IEC 13818 (MPEG-2)	✓	✓	✓	✓
Video Inputs				
NTSC/PAL	✓	✓	✓	✓
Composite YUV, S-Video	✓	✓	✓	✓
SDI	✓	×	×	×
Audio Inputs				
Unbalanced - Input impedance 10k Ohm	Input impedance 300 Ohm	✓	✓	✓
Digital AES EBU	✓	×	×	×
Embedded SDI	✓	×	×	×
2 Stereo pairs	✓	×	×	×
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
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 System	✓	✓	✓	✓
Program	✓	✓	✓	✓
Transport	✓	✓	✓	×
Video CD	✓	✓	✓	✓
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	×	×	×

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