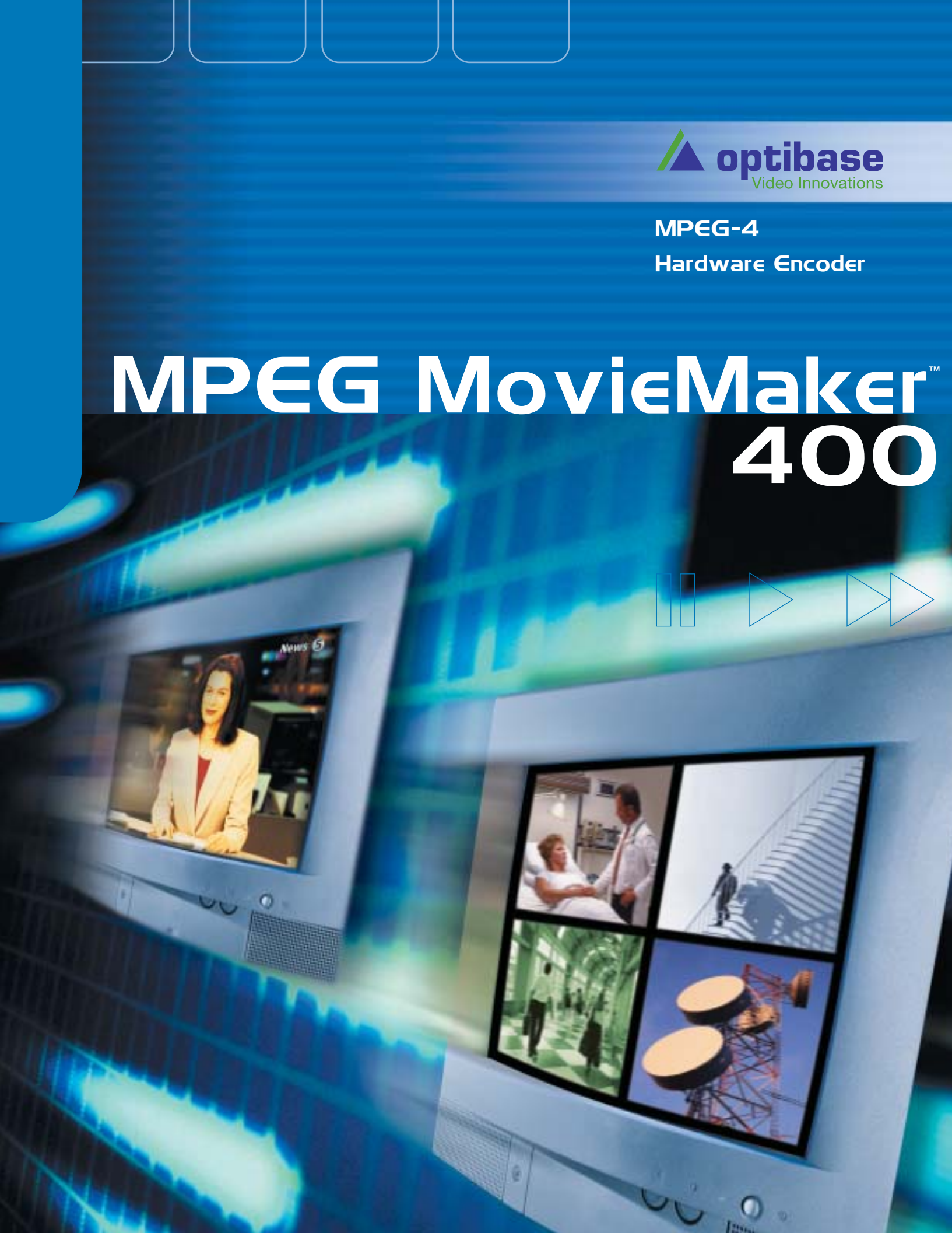
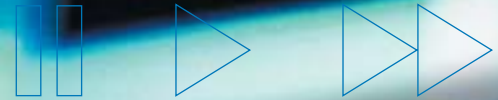


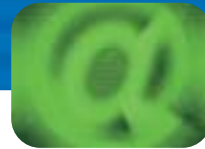


MPEG-4  
Hardware Encoder

# MPEG MovieMaker™ 400



# MPEG Movi



**Bandwidth efficient MPEG-4 video, encoded by MPEG MovieMaker 400, is a key enabler in a wide range of digital video applications. Offering high-quality video at low and midrange bit rates, MPEG MovieMaker 400, with its streaming capabilities, is ideal for organizations that want to implement archiving, monitoring, news gathering or training solutions.**

The MPEG MovieMaker 400's Low Profile (half-height and smaller than half-size) PCI form factor, means that it can be easily integrated into any off-the-shelf standard PC. The encoder can compress two simultaneous audio / video streams, and folds into the standard feature-rich Optibase SDK. These features enable system integrators to build the MPEG MovieMaker 400 into any chassis and bring it to market as quickly and easily as with any Optibase off-the-shelf product.

## Applications

- Archiving / Logging
- Monitoring
- News gathering
- Training
- Business TV
- Video conferencing

# eMaker 400

## Main Benefits

- Ability to encode two simultaneous MPEG-4 channels on the same board.
- Can simultaneously generate three encoded streams, each with different bit rate settings, from the same source giving a total of 6 streams per board.
- MPEG MovieMaker 400 encodes MPEG-4 ISO and ISMA streams, which ensures compatibility with generic players such as Real One, Quick Time and Media Player.
- Comes bundled with Optibase Player 400 software player, including low latency support.
- Compact size allows it to fit into any off-the-shelf PC.
- Up to six MPEG MovieMaker 400 boards can be stacked in the same PC, giving a total output of 36 encoded streams from 12 different sources.

## Professional Services

Optibase's Professional Services group offers consultation and integration services for the development and implementation of end-to-end video solutions based on Optibase's encoding, decoding and streaming products. Optibase's Professional Services engineers have the expertise to design and develop customized video solutions that meet the specific requirements of advanced video applications.

## Features

- Encodes FD1 resolution in single channel configuration or simultaneous dual channel encoding in CIF resolution
- Top quality AAC Low Complexity (LC) audio encoding
- Supports live ISMA compliant streaming over IP networks
- Supports horizontal cropping
- SDK development kit supports Linux and Windows
- File segmentation for extended duration encoding
- Text overlay

# MPEG MovieMaker 400



## Technical Specifications

<b>Standards Compliance</b>	<ul style="list-style-type: none"> <li>• ISO/IEC 14496-2:1999 (MPEG-4 Video)</li> <li>• ISO/IEC 14496-3:1999 and AMD1 2000 (AAC LC)</li> <li>• MPEG-4 Video - ISO/IEC 14496-1:2000(E), ISMA compliant</li> <li>• Windows Media Technologies compliant*</li> </ul>		
<b>Input/Output Signal</b>	<ul style="list-style-type: none"> <li>• Single/Dual channel</li> </ul>		
<b>Video Input (2 inputs)</b>	<ul style="list-style-type: none"> <li>• NTSC &amp; PAL</li> <li>• Composite Video</li> <li>• S-Video</li> </ul>		
<b>Audio Input (2 inputs)</b>	<ul style="list-style-type: none"> <li>• Unbalanced Analog Stereo Line Input (RCA)</li> <li>• Input Impedance: minimum 10k</li> <li>• HW Sampling Frequency: 32, 44.1, 48 kHz at 24 bits per sample</li> </ul>		
<b>Video Parameters</b>	<ul style="list-style-type: none"> <li>• Frame Sampling: 1-30 fps</li> <li>• Bit rate: 8 Kbps-5 Mbps</li> <li>• Profiles: MPEG4@SP or MPEG4@ASP</li> <li>• Multi-streams - Ability to encode each source in up to 3 settings</li> </ul>		
<b>Audio Parameters</b>	<ul style="list-style-type: none"> <li>• 24-320 Kbps MPEG-4 AAC LC</li> <li>• HW Sampling Frequency: 11.025, 22.5, 32, 44.1, 48 kHz at 24 bits per sample</li> <li>• Audio Gain Control: -96 - 12 DB</li> </ul>		
<b>Resolution</b>		<b>NTSC</b>	<b>PAL</b>
	QCIF	<ul style="list-style-type: none"> <li>• 160x112</li> <li>• 176x112</li> </ul>	<ul style="list-style-type: none"> <li>• 176x144</li> <li>• 192x144</li> </ul>
	CIF	<ul style="list-style-type: none"> <li>• 320x240</li> <li>• 352x240</li> </ul>	<ul style="list-style-type: none"> <li>• 325x288</li> </ul>
	HD1	<ul style="list-style-type: none"> <li>• 320x480</li> <li>• 352x480</li> </ul>	<ul style="list-style-type: none"> <li>• 352x576</li> <li>• 384x576</li> </ul>
	2/3D1	<ul style="list-style-type: none"> <li>• 480x480</li> </ul>	<ul style="list-style-type: none"> <li>• 480x576</li> </ul>
	3/4D1	<ul style="list-style-type: none"> <li>• 528x480</li> <li>• 544x480</li> </ul>	<ul style="list-style-type: none"> <li>• 528x576</li> <li>• 544x576</li> </ul>
	FD1	<ul style="list-style-type: none"> <li>• 640x480</li> <li>• 720x480</li> </ul>	<ul style="list-style-type: none"> <li>• 640x576</li> <li>• 720x576</li> </ul>
<b>File Format</b>	<ul style="list-style-type: none"> <li>• MP4 Audio, MP4 Video, MP4 Audio &amp; Video</li> </ul>		
<b>Audio Mode</b>	<ul style="list-style-type: none"> <li>• Mono, Stereo, Linear PCM</li> </ul>		
<b>Network Streaming</b>	<ul style="list-style-type: none"> <li>• ISMA Compliant</li> </ul>		
<b>Hardware</b>	<ul style="list-style-type: none"> <li>• Low Profile PCI Single Board, Plug and Play</li> <li>• Power consumption: <ul style="list-style-type: none"> <li>-9 W @ + 5 VDC</li> <li>-5 W @ + 3.3 VDC</li> <li>-0.5 W @ + 12 VDC</li> </ul> </li> <li>• Single slot low profile PCI: 167.64mm x 64.41mm, 6.6in x 2.53in</li> <li>• Multi-board support</li> </ul>		
<b>Minimum System Requirements</b>	<ul style="list-style-type: none"> <li>• Pentium II 450 or higher</li> <li>• One half-size PCI slot</li> <li>• Operating system: <ul style="list-style-type: none"> <li>• Microsoft Windows 2000 with SP 5 or higher</li> <li>• Linux Redhat*, Debian 3.0 and up with Kernel 2.4.x</li> </ul> </li> <li>• 128 MB RAM or more</li> </ul>		

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\* Special version. Please contact your Optibase sales manager for details.

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