

## BlazeDVD Decoder SDK and Playback SDK Specifications

- **Overview**

- **DVD Decoder SDK**

Includes two standard Directshow filters (audio decoder, video decoder) and relative C/C++ head files to configure their parameters.

- **DVD Playback SDK**

Includes DVD Decoder SDK and a DVD playback controlling DLL which provide an easy-to-use C++ class interface called IBlazeDVDCtrl. We also provide the source code of a simple DVD player written in VC++6.0.

- **System Requirements**

- Windows 98/98SE/Me/2000/XP
  - Microsoft DirectX SDK 8.0 or higher

- **BlazeDVD Decoder SDK Specifications**

Features	Specifications
<b>Video Decoder</b>	<ul style="list-style-type: none"> <li>● MPEG1 and MPEG2 decode</li> <li>● DVD Subpicture decoder then blend into main video</li> <li>● Line21(Closed captions) output support</li> <li>● Frame accurate seeking</li> <li>● High quality de-interlacing</li> </ul>
<b>Audio Decoder</b>	<ul style="list-style-type: none"> <li>● Supports Dolby AC3, MPEG1 audio, MPEG2 audio, LPCM decoding</li> <li>● Supports 5.1 channels output</li> <li>● Downmix 5.1 channels to 2 channels</li> <li>● Supports S/PDIF output for Dolby AC3 and DTS audio</li> </ul>

- **BlazeDVD Playback SDK Specifications**

Features	Specifications
<b>Video</b>	<ul style="list-style-type: none"> <li>• Supports 352x240, 352x480,720 x 480 video playback for NTSC and 352x288,352x576, 720 x 576 for PAL systems and supports DVD movie titles at full 24 or 30 frames per second</li> <li>• Best screen aspect ratio for 4:3 and 16:9 display to avoid screen distortion</li> </ul>

<b>Audio</b>	<p><b>AC-3 Audio</b></p> <ul style="list-style-type: none"> <li>• Support sampling rates: 32, 44.1 and 48KHz</li> <li>• Down mixing from 5.1-channel to 2-channel with Dolby Surround compatibility</li> </ul> <p><b>Linear PCM (LPCM)</b></p> <ul style="list-style-type: none"> <li>• Support sampling rates: 48K and 96 KHz</li> <li>• Supported quantization level 16, 20 and 24 bits per sample</li> </ul> <p><b>MPEG Audio</b></p> <ul style="list-style-type: none"> <li>• MPEG-1 audio and MPEG-2 audio without extension:</li> <li>• Support sampling rates: 32k, 44.1k and 48 KHz</li> </ul>
<b>Sub-Picture</b>	<ul style="list-style-type: none"> <li>• Number of streams: 32 maximum (as described in DVD specs)</li> <li>• Picture data size: 52 KB maximum (as described in DVD specs)</li> <li>• Support current button highlight</li> </ul>
<b>Navigation Features</b>	<ul style="list-style-type: none"> <li>• Play, pause, stop, fast forward and backward, step forward.</li> <li>• Menu selection for Title, Root, Sub-picture, PTT and Audio Menus</li> </ul>
<b>General features</b>	<ul style="list-style-type: none"> <li>• Support Multiple languages: up to 8 languages, allow main application select one of the languages.</li> <li>• DVD Title, Audio/Video and hardware information page</li> <li>• Support DVD chapter and Title repeat , provide such kind of API to set A and B point and then repeat it.</li> <li>• Closed Caption</li> <li>• Support DVD playback in a normal window and full screen window playback.</li> <li>• Video Brightness and Color Control</li> <li>• Parental Level Control: up to 8 levels</li> <li>• Multiple angles: up to 9 angles</li> <li>• Multiple sub-pictures: up to 32 sub-pictures</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>• Software sub-picture alpha blending</li> <li>• High quality de-interlacing</li> </ul>