MPEG-2 Encoding Guidelines
For *MedeaWiz* decoding technology

1) Files should be <u>program stream</u> files of audio/video, video only or audio only, - not *transport streams.*

2) Use <u>4:2:0</u>, *not* 4:2:2 encoding.

3) Recommended resolutions are 720 x 576 or 704 x 576 in PAL, 720 x 480 or 704 x 480 in NTSC.

4) Recommended <u>closed GOP</u> with an <u>I-frame every 15 frames</u>.

5) In MPEG-2, <u>both fields</u> should be encoded. This is the normal default.

6) The recommended audio bit rate is 384Kbps, sampling rate of 48KHz.

7) Maximum encoding bit rates: Dependent on the type of CompactFlash card used. For Ultra-II cards (>60-speed) encode at 4Mbps. For Extreme-III cards (>130-speed) and microdrives encode at 5-6Mbps.

8) Do not attempt to "rip" media from commercially produced DVDs. These files are encoded (and encrypted) at 8-9Mbps and will not play successfully on MedeaWiz players.

9) The video and audio portions should be as close as possible to the same length if back-to-back playback or looping is to be done with the files. Ending the audio at a 0.5 second interval (at an I-frame) should ensure this.

10) It is recommended to include an encoded file of standard colour bars and audio test tones along with encoded media files for reference.

11) To playback stills or computer-based graphics, we recommend software encoders such as TMPGEnc (www.pegasys-inc.com) or DVMPEG (www.darvision.com).