

Kodak P880 MOV Files Problem

Just for the info of anyone with a Kodak P880 camera with firmware rev 1.02, I had the audio distortion problem too, and after a HUGE amount of searching and trying suggestions from all over the internet, have a solution.

Firmware Rev1.02 saves the video stream as MJPEG and audio stream uncompressed. The audio sample rate is a little under 8000Hz. It seems the combination of the low sample rate and the audio quality from the P880 microphone causes the distortion (ringing & inaccurate tonal balance) when converting to DVD (& other) formats with higher sample rates.

The solution was the freeware program MP4Cam2AVI to convert the audio sample rate to 24000Hz and roll off the high frequency response. Download the program from <http://sourceforge.net/projects/mp4cam2avi> & install. Then

- Enable 'Expert' mode from the Settings menu (Settings -> Program Mode -> Expert)
- Use the following settings:
 - Set 'action' to 'Batch convert'
 - Set 'video format' to 'Source video (no recompression)'
 - Set 'audio format' to 'PCM (uncompressed)'
 - Tick 'use advanced options'
 - Click 'advanced options' button
 - Tick 'mono output', 'resample to 24000Hz', and 'lowpass filter'
 - Set the filter to 6000Hz and power to 4
 - Set audio volume adjust to 80%, track delay to 0, and preload to 500
- Select one or many MOV files and click 'Start'.

The result is AVI files where the video has been 'passed through' without recoding (No quality loss!) and the audio has been resampled & processed as above. The files work perfectly in media player and my video editing/encoding/DVD creation software. Goodbye audio distortion! A good ear will detect that the high frequency response has been rolled off, but as the original sample rate of the camera is barely 8000Hz there is no true high frequency data to be lost, and the gain in clarity makes it worth it 100 times over.

Screenshots

