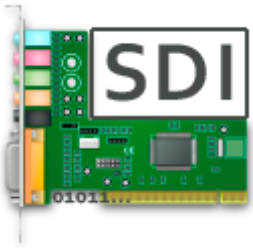
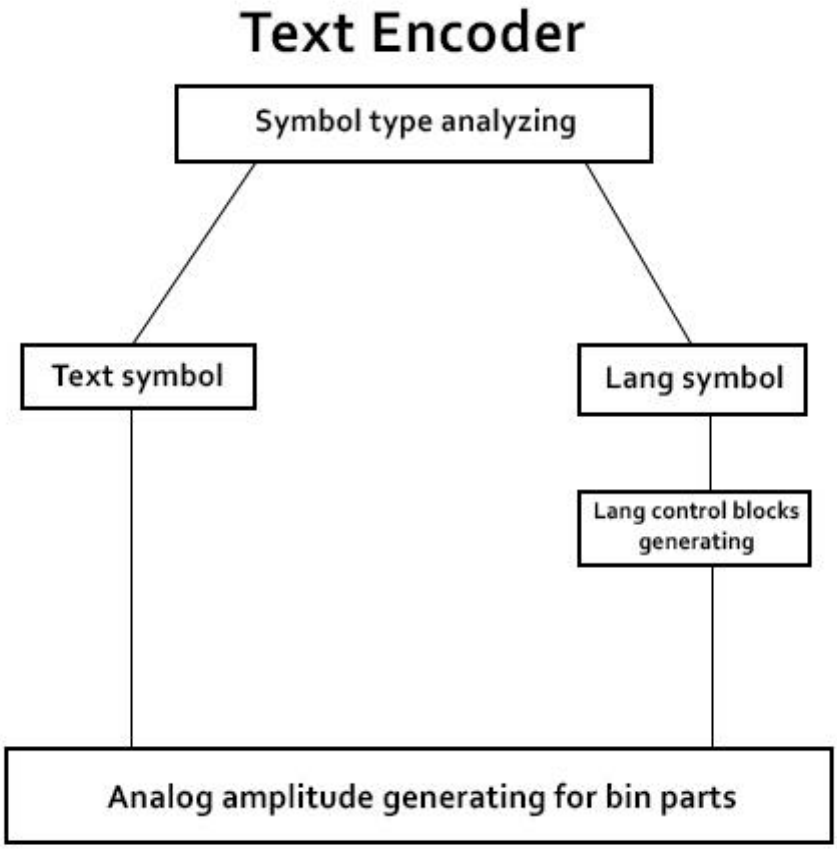


SoundCard Data Interface Manual

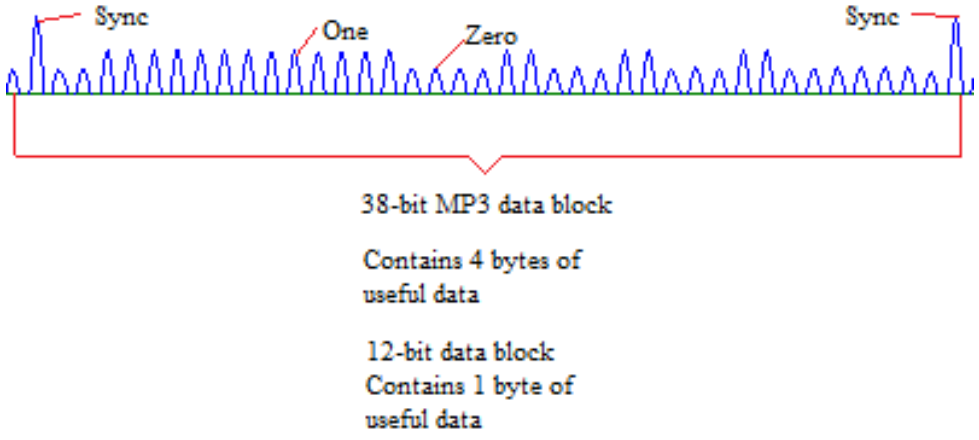
by Yurii Faraday

Encoded signal basics and adjustments

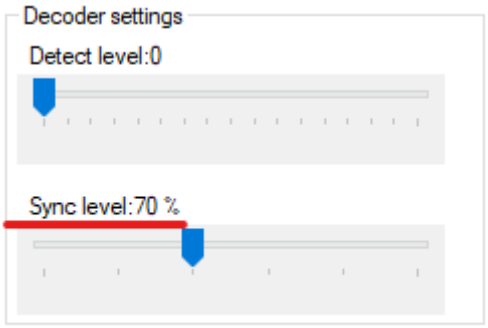
1. Text encoder algorithm scheme:

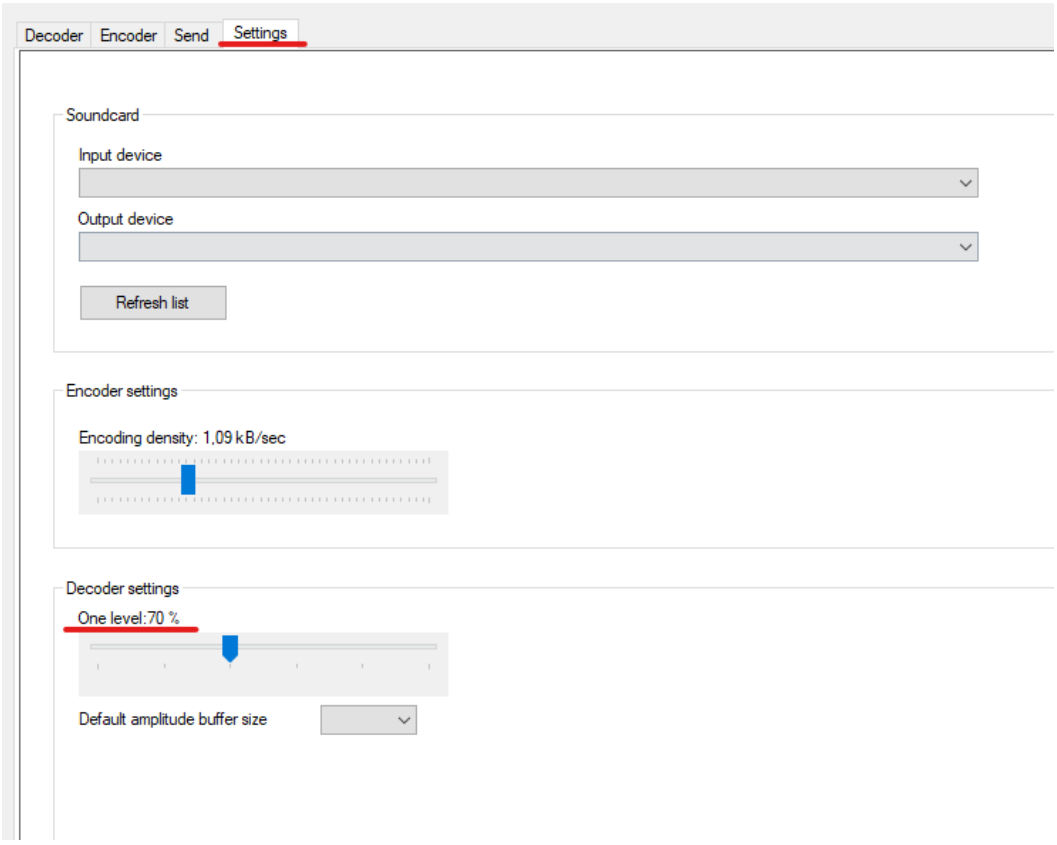


2. Signal structure basics:

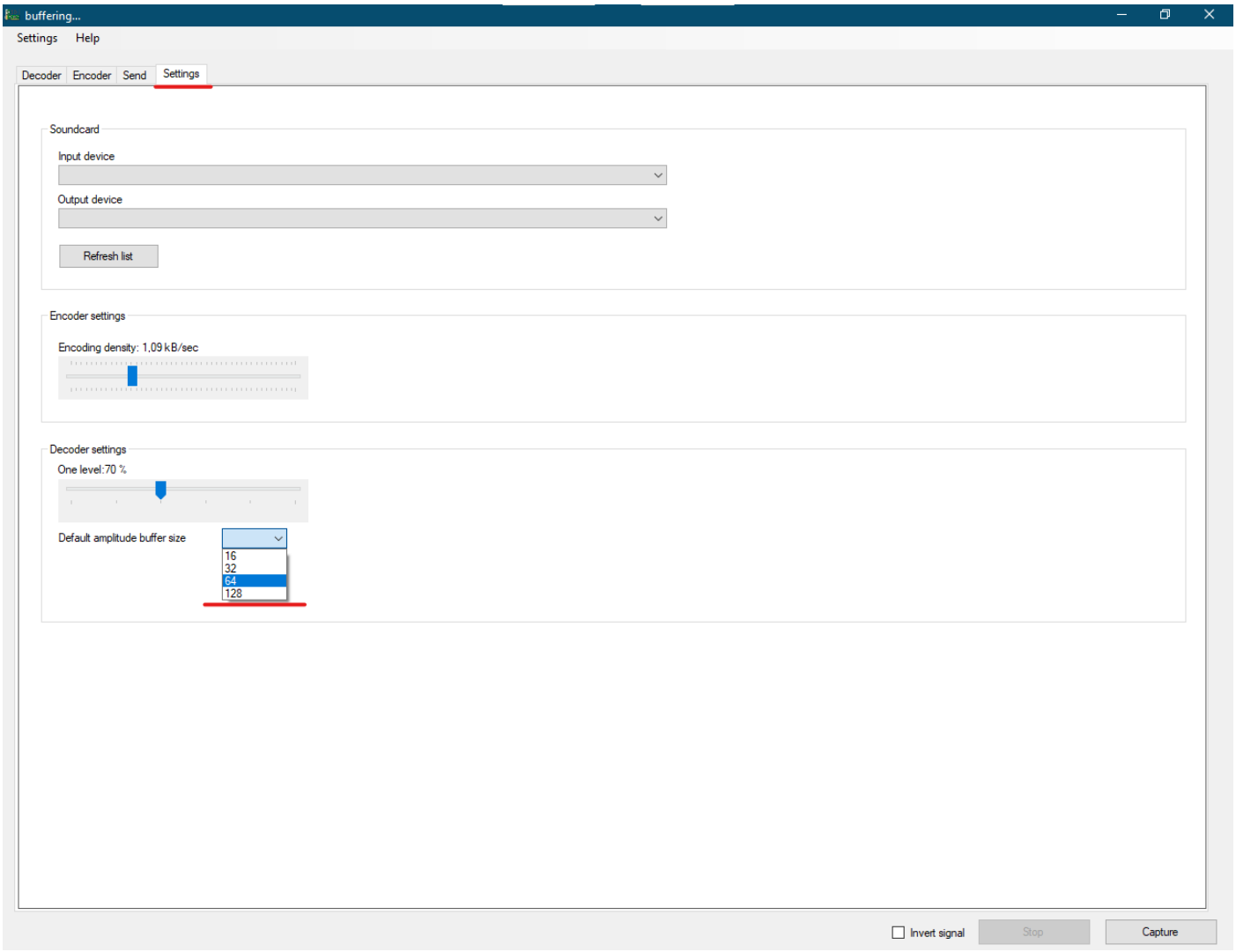


3. Amplitude detection:
   - To detect sync pulses and one amplitude, SDI using amplitude level settings. You may change it to get more quality decoding





- **Amplitude buffer size**, is important setting, that lets improve decoding quality also. 64-bit set by default. To minimize text decoding delay (signal awaiting, when buffer is not full), you may set less high value (16 or 32-bit), but don't forget to change it back to 64 or 128-bit, if mp3 decoding needed:



- Any data encoded by SDI, uses **errors correction system**, that lets to fix invalid data blocks while decoding.

- You may change **encoding density**, if you want, using special track bar at settings: