

## Future Impact new features

### Version 2.03

1. **Tuner.** Press and hold ON/OFF for a second. In either case if it was ON or OFF, it will go ON, but the output will be muted (audibly it will go off). Tuner is activated. The first digit shows the note, the second the # sign, and the third the fine tune value with one or more of the three horizontal lines. The lower line alone means flat by > 10 cents, lower and middle flat by > 3 cents, the center line means OK (within +-3cents), middle and upper line sharp by > 3 cents, upper line sharp by > 10 cents. Press ON/OFF briefly, and it returns to ON state. While in tune mode, the display is blank if there is no signal.
2. **Passing sys real messages.** Some users complained that while MIDI channel messages are passed through, sys real messages, especially timing clock does not. This is corrected now, timing clock, start, continue, stop is passed as well.

### Version 2.20

1. **Tune Base.** This is the tune base value for the synthesizer as it is used through MIDI IN as an expander. Using the FI with a bass guitar is not affected by this parameter, as the tuning of the synthesizer is locked to the tuning of the bass guitar anyway. The next global parameter after vCF is tbS (tune base). When you change the parameter selector from the leftmost position, the display changes to the tune base value, it can be edited with the wheel. The default is 440. The adjustment range is from 428 Hz (ca. -50 cents) to 452 Hz (ca. +50 cents). This adjustment will also set the base of the TUNER. When you upgraded to this version (or any higher) then you should either perform a parameter reset, or set this to default (440), otherwise your tuner will show wrong values, and if you use it from MIDI then the notes will be out of tune.
2. **Bass/Guitar mode.** The next global parameter after Tune Base is Gtr (Bass/Guitar mode). The adjustment range is bSS or Gtr. As this is a very important parameter, it is displayed on power up for 1 second right after the version number.
3. **Further pitch tracking improvement.** Together with the implementation of Bass/Guitar mode the pitch tracking is significantly improved; this affects bass guitar mode as well.
4. **Attack modifier bug fixed** (worked only in Vintage mode);
5. **Effect on-off flip through MIDI.** Control 69 (Hold2) is used for this. If the data byte is >63 then flips between on and off. If it is <=63 then the message is ignored.
6. **MIDI NOTE OFF bug fixed.** In keyboard mode the sound was locked if a NOTE OFF was repeated twice.
7. **Program Upload implemented.** Programs can be read back from the FI, in order to save them on computer. Requires 2.20 editor.