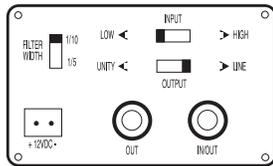


## FBX-SOLO SL820

### Specifications



The Sabine FBX-SOLO controls feedback on one microphone or instrument - you decide which inputs get precision, automatic feedback control and maximum gain, from one channel to all your channels. Features include increased headroom, a programmable noise gate, & switchable input/output levels for more versatility. The FBX-SOLO targets feedback without taking a big chunk out of your sound. Digital FBX filters are 10 times narrower than graphic EQ filters. You get back over 90% of the power you lose with a graphic EQ! The FBX-SOLO automatically detects and eliminates feedback while leaving the sound crystal clear. The patented algorithm distinguishes music from feedback so it works even during the program, not just at setup time. If you use your 31-band EQ just to shape your sound and let your FBX control feedback, you should expect up to 9 dB more gain and a dramatic improvement in the sound quality. Why? When you pull down a graphic EQ slider to chase feedback, you also pull out a big chunk of your sound. FBX constant-Q filters are 10 times narrower than graphic EQ filters. Narrow filters mean more gain and more clarity.

#### FBX/PARAMETRIC FILTERS

Eight independent digital notch filters controlled automatically from 40Hz to 20,000Hz.  
 Filter width: 1/10 or 1/5 octave (selectable), constant Q. Filter depth: DSP controlled, variable to -40dB. Resolution: 1/50th octave.  
 Time required to find and eliminate feedback: 0.4 seconds, typical @ 1KHz.  
 Total number of combined filters active: user selectable, from 1 to 8.  
 Number of dynamic vs. fixed filters: user selectable.  
 Last configuration stored in memory.

#### INPUT/OUTPUT

1/4" TRS; tip=input, ring=output, sleeve=ground  
 Input impedance: Unbalanced > 1meg Ohm.  
 Gain range: (with line out selected): 0 to +35 dB (high in), +30 to +65 dB (low in).  
 Maximum input/output level at lowest gain: +20 dBV.\*\*  
 Input to output gain @ unity setting: +/-0.5 dBV.  
 Output impedance: unbalanced 10 Ohms nominal; maximum load 2K Ohms.  
 Bypass: digital.

\*Below approximately 200 Hz the feedback filters become slightly wider to increase the feedback and rumble capture speed at these low frequencies.

\*\* (Note: Inputs may be balanced or unbalanced. For maximum output capability, outputs must be balanced (XLR). If either side of an input is grounded, the peak output and dynamic range will be reduced by 6 dB.

\*\*\*Tests performed using an Audio Precision System One model 322 or equal.

#### PERFORMANCE\*\*\*

Frequency response: < +/- 0.25 dB, 20Hz to 17,000Hz.  
 Signal to noise ratio: > 94 dB typical.  
 Total harmonic distortion: < 0.01% @ 1 KHz @ any gain setting.  
 Dynamic range: > 100 dB.  
 Selectable noise gate.

#### POWER

Power supply: 8-20VDC @ 400 mA.

#### DIMENSIONS

1-U rack mount height, 1/6-RU width; 2.78 x 1.65 x 5.5 in. nominal;  
 6.95 x 4.13 x 13.75 cm nominal.

#### Weight

9.0 oz. (0.26 kg) nominal.  
 Optional rack tray holds up to six units.

#### Architect's and Engineer's Specifications:

The automatic feedback controller shall be a single channel digital signal processor (for mixer insert points, powered mixer patch points, acoustic/electric guitars and guitar amps and high impedance mics), with six 1/10- or 1/5-octave filters (selectable). The filters shall be constant Q (filter skirts do not widen as the filters get deeper). The unit shall automatically sense feedback and determine its pitch, then assign a digital notch filter to the resonating frequency to automatically eliminate the feedback. It shall effectively distinguish between music and feedback and shall be operational during the program. The product shall use two types of user-selectable notch filters: "fixed" or "dynamic." The fixed filters shall remain set on the initial feedback frequencies, while the dynamic filters shall be automatically reassigned new frequencies as feedback occurs during the program. The feedback controller shall include the following: a TURBO mode for quick setup; a two-position push button power switch; a two-color active/bypass button and LED which allows the user to set the unit to control feedback (active mode) or to take the unit out of the signal path so it has no effect on the program (bypass mode); a reset button so all filters may be re-configured; a "lock fixed" button and LED, which allows the user to lock fixed filters created during system setup and to limit the total number of active filters; a clip level adjust knob; clip LEDs, which indicate clip level and also indicate threshold level when enabling the selectable noise gate; filter stage activity LEDs to indicate active filters; a filter width switch to select 1/10- or 1/5-octave filters; an input lo/hi switch to choose input level; and an output unity line switch for choosing output level. The unit shall also be provided with an external power supply, and 1/4" TRS input and output. The automatic feedback controller shall be the Sabine FBX-SOLO SL820 Feedback Exterminator®.

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)