

## FEL MINI-MICBOOSTER MICROPHONE PRE-AMPLIFIER

Flat frequency response, low noise.  
No batteries, mains, switches, knobs, or any controls  
Pocket size  
Neutrik alloy case, gold plated Neutrik XLR connectors  
20 dB of mic level gain  
Operates from 12-48 V phantom power  
Input (female XLR) connector options:  
Standard - accepts a cable mounted standard XLR  
Extended - can be connected directly to a microphone  
or panel mounted XLR.



20-802 FEL MINI-MICBOOSTER MICROPHONE PRE-AMPLIFIER Standard  
20-803 FEL MINI-MICBOOSTER MICROPHONE PRE-AMPLIFIER Extended

### Specification

Audio Gain	20 dB fixed
Gain Accuracy	±0.5 dB
Frequency response	20 Hz - 20 kHz ± 0.25 dB, 150 ohm source
Equivalent input noise (EIN)	-115 dBu at 20 dB gain, 150 ohm source, flat weighting, 20 Hz - 20 KHz
Output clipping level	-10 dBu with 600 ohm load
Input clipping level	-30 dBu at 20 dB gain 600 ohm load
Input	electronically balanced, 1K ohm input impedance
Polarity	input to output is non inverting, polarity is preserved
Output	electronically balanced 200 ohm output impedance

Power

12 to 48 volt phantom power (DIN 45 596).  
The amplifier is equipped with self sensing power circuitry and depending on the source microphone will adjust between the following worst case scenarios.  
For a phantom powered mic requiring maximum current there will be a phantom voltage drop of 2.6 volts and no shunt current used.  
For a non phantom powered mic there will be a phantom voltage drop of 2.6 volts and a shunt current of less than 1.5 mA.

Physical

Neutrik extruded aluminium case with laser engraved legend.  
Internal circuitry encapsulated for robustness and maximum moisture resistance.

Connectors

Neutrik gold plated 3 pin XLR.

### Dimensions and weight

Standard	78 mm (l) x 26 mm (w) x 31 mm (h), 88 grams
Extended	83 mm (l) x 26 mm (w) x 31 mm (h), 93 grams

### Operational Guidelines

The preamplifier is designed to boost low level mic signals before they go into the microphone input of a recorder or sound mixer. It is not designed to amplify a signal to line level.  
At levels above -10 dBu distortion will begin to occur.

The preamplifier is best positioned as close to the microphone as possible maximising signal to noise.

Powered from 12 to 48 volt phantom power. It cannot be used with other forms of microphone power.