

# BOCKAUDIO

## USER MANUAL: MODEL IFET

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1) The Bock Audio IFET is a dual FET amplifier cardioid microphone powered by P48 phantom voltage. The microphone's audio output is standard male XLR3, with positive excitation of the diaphragm at the front of the mic resulting in a positive voltage at the output XLR's pin 2. Audio output is fully transformer balanced.

2) The IFET allows the user to select one of two amplifiers to connect the microphone's capsule and transformer to, one being a simple single FET, the other being a more complex five transistor discreet op amp. Each amp brings it's own set of specifications, strengths and weaknesses depending upon the user's applications. The “V” mode adds 2dB of sensitivity, loses 21dB of headroom, and adds warmth to the signal. The “i” mode is more clinical, with it's complimentary output pair transistors, and is more suited to high SPL sources.

3) The “v-i” switch may be engaged while the unit is on without damaging the unit. **CHANGING MODES WILL CAUSE A LOUD “POP” AT THE MICROPHONE OUTPUT. MUTE YOUR MONITORS OR HEADPHONES TO PREVENT DAMAGE.**

4) The Bock Audio IFET is powered by P48 phantom power. Operation with less than 40v phantom may result in compromised performance. For more detail on phantom powering, please see DIN 45 596/IEC268-15A. Remember to use as new, good quality cables as possible, as older cables with internally frayed shield wires often result in poor performance of phantom powered mics.

5) **CAUTION: Shock Hazard: Do not open microphone when connected to power source. No user serviceable parts inside. Refer failed units to qualified service personnel.**

VORTICHT: Shock gefar: Bitte nicht das Mikrofon offen wenn es eingeschaltet ist einen Stopkontakt. Keine zu wartenden Teile im Inneren. Beziehen gescheitert Einheiten qualifiziertem Service-Personal.

ATTENZIONE: Choc hazard: N'ouvrez pas le microphone quand il y a une connexion avec une source d'électricité. Aucune pièce réparable par l'utilisateur. Référez les unités échouées à un personnel qualifié.

ATTENZIONE: Rischio di scossa: Non aprire il microfono quando è attaccato all'elettricità. Non contiene parti riparabili. Riferimento unità riuscite a personale qualificato.

Specifications:

Patterns:	Cardioid
Frequency Range:	20Hz to 16kHz, +/-2dB
Sensitivity:	9mV/Pa ("i" mode), 12mV/Pa ("V" mode)
Equivalent Noise:	18dB ("A" weighted) 32dB (unweighted)
Distortion vs.SPL @1kHz: ("V" mode)	126dB = 0.5% THD 127dB = 1% THD 129dB = 2% THD (increasing distortion is exponential, complex 3rd harmonic)
Impedance:	200 Ohms true transformer balanced
Recommended load:	2k Ohms
Dynamic range (maxSPL-"A"noise):	94dB
S/N (94dB-noise):	76dB "A", 62dB unweighted
Capsule size:	1" diameter, single backplate K47 type
Power Consumption:	1.2mA@48Vdc
Dimensions:	2" dia x 8.5" oal (52x216mm)
Weight:	1lb 9.3oz (1.58lbs) =716g
Shipping weight:	2 lbs
Power Supply:	user provided