
Uncompromised character

Two channel, stereo matched microphone preamplifier uncompromised in sonic character, technical specification, and mechanical workmanship. Combining a precisely matched quartet of discrete bipolar transistors with a laser trimmed DC coupled BiFET output driver stage, entirely "double balanced," extremely wide dynamic range, intended for demanding acoustic work.

The signal path from input through output is entirely balanced with a minimum amplifier topology.

Uncompromising circuit design with meticulous selection and hand-matching of critical components assures consistently transparent audio performance at all dynamic excursions and frequency extensions.



QES Labs



QUALITY ENGINEERING SOLUTIONS

TFE-3

*Solid state with transistor front-end
Dual Microphone Preamplifier*



QES

www.qeslabs.com

Preamplifier with analogue discrete circuitry, totally handmade with selected components.

Sales Representative:

Preamplifier

Microphones plug into the XLR input on the front panel, a continuously rotary knob controls the pre-amp gain, so recall of exact settings is entirely possible.

Gain Range +20/+60dB
with fine tuning Volume knob.

Output +35dB
Max

Phase
Selectable between 0° and 180°.

Phantom sel. 48 VDC
The Phantom selector switches the 48Vdc between pins 2 and 3, for use with Phantom-powered microphones.

Matched components

A minimum number of resistors and capacitors have been used in the audio path for maximum sonic experience.

Gain continuously variable

Continuously rotary knob assures precise control over preamplifier gain.

Matched transistor front-end

The input stage consists of a balanced topology with a matched quartet of low noise bipolar transistors, delivering an uncompromised sonic transparency.

Low Boost, Low Cut

To preserve phase in the audio path, no filters were added, so you won't find the usual HPF.

Spec Sheet

C.M.R.R. >-80dB
Rejection Ratio at 10 KHz.

Frequency response 5Hz – 100KHz
-3dB points.

Noise >-68dBu
60dB gain, 22Hz to 22KHz, 200-ohm terminated.

Maximum Output Level (M.O.L.) +35dBm
For 1% T.H.D. + Noise.

Filters
Complete absence of colouring filters

Transistors and IC's
4 x 2SA1085, AD712 BiFet Op Amp (for each channel).

Input (xlr) impedance 2,200 ohms
Output impedance 50 ohms
Power supply 210/230 volts A.C. 50/60Hz

