



High performance microphones Professional Series

KR-33A 33mm Cardioid (side address)

After many years of experimenting with both large-diaphragm tube and FET assemblies, THE has come up with a marriage of tone and depth that captures the best of both worlds.

This is a traditional (true-condenser) deep-math German/Russian design, specially modified for our pre-amp assembly to give that large and "important" traditional 33mm sound while retaining a lot of ambient "capture".

Our 33 mm capsule is engineered to provide a midrange response specifically optimized for the voice.

The resulting mic offers the "presence" that many recording engineers seek for a vocal or solo instrument track that cuts smoothly and can therefore be soft-mixed throughout a recording.

All this is combined with a modular design and fine 24K gold plated finishing, resulting in an exceptionally expressive product for any professional recording. THE KR-33A capsule is the perfect "specialist" for a modern recording studio, providing outstanding sound with extremely low self-noise and high dynamic range characteristics. Combined with our KA-04 preamplifier, the self-noise goes below 9 dB-A and the maximum SPL goes to 140 dB without any attenuation!

As always, we suggest regular use of a good shock-mount for the microphone body, creating immunity to floor vibrations and other mechanical rumble and interference.



THE
Art of Sound

Technical Specifications

KR-33A 33 mm Cardioid Capsule Specifications

Directional pattern
Operation principle (transducer)
Sensitivity
Frequency response range
Equivalent SPL rated at CCIR 468-3
At DIN / IEC 651
S/N ratio rated at DIN / IEC at 1 Pa.
Max SPL for 0.5% THD
Size (capsule diameter)

cardioid
pressure-gradient
11 mV/Pa
10 - 20,000 Hz
22 dB
11 dB-A
83 dB-A
136 dB-SPL
33.0 mm

KA-04 High Performance Preamplifier Electronics

This is a true "state-of-THE-art" patented design and is generations ahead of most pre-amp assemblies. Construction utilizes hand-selected and matched components, low-noise metal film resistors and low-loss polyester capacitors with no electrolytics in the audio path yielding amazingly low THD, low IMD and outstanding dynamic range. The electronics and actual PCB design include "Guard Ring Shielding", ensuring extremely low input load, high stability, low noise and a symmetrical transformerless high-capability Class "A" output as well as low dynamic output impedance.

This pre-amp body offers a true dynamic range from 1 μ V to up to 18 Vpp into 10 K ohms 1 μ V (input referred 20 to 20,000 Hz BW, RMS noise). This allows a lower input gain, reducing input noise, which makes the KA-04 preamps, the perfect match for even the most discerning 24 bit digital microphone preamplifiers. The low noise and high gain will simply amaze you, pulling the MOST from your existing recording chain, whether analog or digital.

The assembly is made with THE finest materials, using Teflon, Delrin and 24K gold plating where needed. Each one is rigorously tested through multiple functional, burn-in and quality checks, before leaving our factory.

KA-04 PreAmp Specifications

Powering (Phantom)
Power Consumption
Input Impedance
Input Capacitance
Frequency Response
Output Impedance (5 Hz to 30 KHz)
Equivalent Input Noise
Capsule Polarizing Voltage
Maximum Output Drive (differential)
Maximum Dynamic Range
Diameter
Length
Weight

48 Vdc (4)
2.5 mA
500 Mohms
< 1 pF (3)
5 Hz to 30 KHz +/- 0.5 dB
< 80 Ohms
< 2 μ V RMS (2)
+ 40 Vdc
18 Vpp (1)
> 132 dB (1)
20.5 mm
95 mm
85 gr.

All THE specifications are subject to change or improvements without notice.

(1) Z. Load = 10 Kohms, resistive.
(2) B.W. = 20Hz - 20 KHz & Zin = 50 pF
(3) Internal & External Active Guard Ring.
(4) According to DIN45596 & IEC 815.

THE Professional Studio Series



Contact Addresses:
Info@theaudio.com
sales@theaudio.com

Taylor Hohendahl Engineering LLC.
PO Box 343 - South Woodstock, CT 06267
Phone: +1-860-821-5414

www.theaudio.com