



## High performance microphones Professional Series

### KR-1F $\frac{1}{2}$ Inch Omnidirectional

The KR-1F capsule is a  $\frac{1}{2}$  inch, "true condenser" design with a classic omnidirectional polar pattern.

It is an excellent choice for acoustic guitar, strings, drums, percussion or wind instruments.

The KR-1F is also ideal for room micing, or as a spot mic for choirs, organ or piano.

As is true with all omnidirectional mics, the acoustic (ambient) space takes on more of a role when using the KR-1F and consequently, engineers must work to create a good balance between direct and reflected sound.

The frequency response of the KR-1F is flat from 20 to 20,000Hz with no more than  $\pm 1.5$  dB of deviation.

The flat response makes this capsule ideal for A-B stereo recordings.

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

The KR-1D is also available as matched pairs for stereo recordings.



NOTE: All capsules are shown mounted over the KA-04 Preamp.

THE  
Art of Sound

# Technical Specifications

## KR-1F 1/2" Omnidirectional Capsule Specifications

Directional pattern  
Operation principle (transducer)  
Sensitivity  
Frequency response range  
Equivalent SPL Noise 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  
Capacitance  
Head Size

Omnidirectional  
Pressure  
12 mV/Pa  
20 - 20,000 Hz  
26 dB  
14 dB-A  
80 dB-A  
136 dB SPL  
37 pF  
Ø 21,5 x 25 mm

## KA-04 High Performance Preamp 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  $\mu$ V to up to 18 Vpp into 10 K ohms 1  $\mu$ 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  $\mu$ 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



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