



## High performance microphones Professional Series

### TT-3M Titanium Test & Measurement

This is the ultimate omnidirectional mic. Fast, ultra-quiet electronic design; super-high quality components and a titanium diaphragm ensure years of trouble-free use in ANY environment.

The TT-3M is designed for critical measurement as well as field or studio use. Only a titanium diaphragm can offer the stability required for long-term precision measurement - even in extreme environmental conditions.

Incorporating the finest THE® fast and neutral transformerless electronics, this Type 1.5® reference mic is a new standard, offering an unprecedented marriage of art and technology that easily outstrips even the finest commercial and custom-built European test and reference microphones.

With a "flat" frequency response of 5Hz to over 20kHz, the mic's huge dynamic range, high output and low distortion reach the theoretical limit of 48V phantom powering.

This superb combination of parts/systems allows us to offer a tool (instrument) for critical recording and measurement that can also be obtained in matched-pairs for stereo recordings and data-acquisition in the field.

All this combined with fine Chrome and Rhodium plated finishing and cedar box results in a product that can truly represent an apex of function, utility and excellent sonic characteristics that will be a benchmark for years to come.

The TT-3M is also available as matched pairs for stereo recordings.



THE  
Art of Sound

# Technical Specifications

## TT-3M Titanium - Test & Measurement

Directional pattern	omnidirectional
Operation principle (transducer)	pressure Transducer
Polarization Type	pre-polarized
Sensitivity	12 mV/Pa
Frequency response range	5 - 25,000 Hz
Equivalent SPL rated at CCIR 468-3	26 dB
At DIN / IEC 651	16 dB-A
S/N ratio rated at DIN / IEC at 1 Pa.	78 dB-A
Max SPL for 1 % THD	142 dB SPL
Stability	-1 dB / 250 years
Capacitance	18 pF
Size (Capsule)	Ø 13.2 mm

## TT-3M High Performance Preampifier 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 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. Typical 1.3  $\mu$ V RMS noise (input referred 5 to 30.000 Hz BW). This allows a lower input gain, reducing input noise which makes the THE 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.

## TT-3M PreAmp. Specifications

Powering (Phantom)	48 Vdc (4)
Power Consumption	2.5 mA
Input Impedance	5000 Mohms
Input Capacitance	< 1 pF (3)
Frequency Response	5 Hz to 30 KHz +/- 0.5 dB
Output Impedance (5 Hz to 30 KHz)	< 80 Ohms
Equivalent Input Noise	< 2 $\mu$ V RMS (2)
Capsule Polarizing Voltage	+ 40 Vdc
Maximum Output Drive (differential)	18 Vpp (1)
Maximum Dynamic Range	> 132 dB (1)
Diameter	20.5 mm
Length	95 mm
Weight	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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