

NEW  
PRODUCT

# Ivory 2 Series



**5000**

## GOLD DIAPHRAGM VALVE CONDENSER MICROPHONE & PREAMP

The TL Audio 5000 microphone package couples a premium quality valve condenser microphone with a matched PSU & discrete preamp, allowing pristine capture of any sound source. The microphone boasts a 1" dual gold diaphragm and offers 9 variable patterns including omni, cardioid and figure of 8, along with six intermediate stages. Both low cut filter and 10dB pad switches are also provided on the microphone, and an elastic suspension mount, foam windshield and 10m interconnecting cable are supplied as standard.

The power supply's output includes the heater and 200V DC supply for the microphone's internal 12AT7 triode valve, while the preamp stage offers control of input and output gain, phase reverse and output level metering. The preamp provides a balanced line level output on XLR, although this output can also be switched to bypass the preamp stage: thus providing a microphone level signal that can be fed to an external mic preamp if desired.

With the optional DO-2 digital output card providing a 24 bit SPDIF output, the 5000 microphone & preamp package is the perfect way to go straight from source into your DAW, soundcard or mixer in either in analogue or digital format. How flexible is that?

- MAIN FEATURES**
- Large 1" gold diaphragm valve condenser mic with 9 variable patterns
  - 10dB pad and 120Hz low cut filter
  - Suspension mount, pop shield and 10m cable supplied as standard
  - Combined PSU and discrete preamp are matched to each individual microphone
  - Preamp provides input/output gain, phase reverse and output metering
  - Balanced XLR line level output, and unbalanced TRS monitor output
  - Optional DO-2 card provides 24 bit mono/stereo SPDIF output
  - Link facility allows a pair of 5000 mics to be outputted in stereo SPDIF format
  - 2U 19" PSU/preamp designed for floor or rack mounting

**TELEPHONE**  
+44 (0)1462 492090 //

**FAX**  
+44 (0)1462 492097 //

**EMAIL**  
info@tlaudio.co.uk //



The 5000 PSU/Preamp comes with detachable rack ears as standard, allowing it to be 19" rack mounted or placed on a floor or table top.

# 5000 PSU / PREAMP

## FRONT PANEL TOUR

- 1. Directional Pattern Switch** - This nine position rotary switch enables the dual diaphragm of the microphone to provide a range of patterns from Omni via Cardioid through to Figure of 8, with 6 intermediate stages. This flexibility makes the 5000 series microphone truly versatile, and so much more than just a standard cardioid vocal mic.
- 2. Preamp Input Stage** - The 5000 PSU/Preamp employs the same high quality discrete mic preamp stage as the rest of the Ivory 2 series – providing clarity, detail and warmth. This preamp design is guaranteed to reproduce every nuance of the 5000 microphone's response, and allows variable control of input gain from +16 to +60 dB (which can be used in conjunction with the 10dB pad on the mic itself). Phase reverse is also provided for correcting phase errors in multiple mic set-ups. Finally, a Peak LED warns of impending clipping, by reaching full illumination when approximately 6dB of headroom is left. This LED simultaneously monitors several key points in the signal path.
- 3. Output & Metering Section** - The clean, uncluttered layout of the 5000 preamp is completed by the large output level control, which provides variable gain from complete attenuation through to +15dB of output. This control is crucial when going direct to tape or disc since it acts as an output fader, making it easy to independently set the input and output gain positions of the preamp. This provision of extra output gain makes the 5000 preamp perfectly suited to working with the latest generation of digital recorders & mixers, which often require very high input levels to drive them. The large backlit VU meter monitors output level (normally reading 0VU when +4dBu of level is generated at the preamp's balanced XLR output), and an associated '+10' switch pads the meter down by 10dB, enabling high levels to be monitored without fully deflecting the meter.

SPECIFICATIONS	
<b>Microphone</b>	
Directional Pattern:	9 positions from Omni, via Cardioid through to Figure of 8
Sensitivity:	14mV/Pa = -37dB (0dB=1V/Pa)
Frequency Response:	20 – 20kHz
Low Cut Filter:	120Hz @ 6dB/octave
Impedance:	less than 300 ohms
Max SPL:	130dB (1kHz, 1% THD)
Equivalent Noise:	18dB-A
SNR:	76dB (ref:1Pa)
Dimensions:	190mm length, 59mm diameter
Net Weight:	700g
<b>PSU/Preamp</b>	
Mic Noise (EIN):	-127dBu (150ohm source, 22Hz to 22kHz)
Balanced Line Output:	Max level +26dBu
Unbalanced Monitor Output:	Max level +20dBu
Frequency Response:	20Hz to 35kHz, +0,-2dB
Power Supply:	Consumption 25VA typical
Dimensions:	483 x 200 x 88mm
Shipping Weight:	6kg

Due to a policy of continuous development, specifications & features are subject to change without notice. E&OE



## REAR PANEL

Rear panel connections abound! A 7 pin microphone connector carries the power and audio to/from the microphone, while the main preamp output is provided on balanced XLR. This line level output can be replaced by the direct unamplified microphone level signal via the adjacent 'Mic Out' switch – enabling an external preamp to be used if preferred. An unbalanced jack monitor output duplicates the main preamp output and is ideal for latency-free monitoring in a computer based system.

A slot is provided for the optional DO-2 digital output card, and this can also be used in conjunction with the Link In and Link Out jack sockets. By using a stereo pair of 5000 mic/preamp packages, the stereo preamp signal can be outputted in digital format by connecting the Link Out of the first preamp to the Link In of the second preamp. If the DO-2 card is then fitted to the second preamp, it will output the stereo signal in 24 bit SPDIF format. Easy!

Ivory 2 Series

- Package includes:**
- 1 Ivory 5000 Microphone
  - 1 Ivory 5000 PSU/Preamp
  - 1 Suspension Mount
  - 1 Pop Shield
  - 1 10m Cable



Distributed by:

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