



## pT2-500D Precision Dynamic Preamp

### **DESCRIPTION**

TRUE Systems announces the introduction of our pT2-500D Precision Dynamic Preamp in the API™ 500 series module format. The pT2-500D preamp is optimized for dynamic and ribbon microphones, and also produces superior results with self-powered tube microphones. While similar to our TEC-nominated pT2-500, it provides more gain (76dB) and higher input impedance, along with a unique low frequency adjust control. The LO-F Adjust is a 6-position switch that provides nuanced low frequency contouring that can be particularly effective with vocals and bass DI applications. A discrete FET DI with In and Thru connections completes the package.

### **FEATURES**

- ✓ API™ 500 series module format
- ✓ Detented, continuous Gain Control and Dual Gain Ranges for:
  - 76dB maximum gain
  - easy recall of gain settings
  - easy gain setting over wide gain ranges
- ✓ High Input Impedance for:
  - More clarity and accuracy with ribbon and dynamic microphones
- ✓ Low Frequency Adjust Control for:
  - nuanced low frequency contouring
  - better definition of vocals and bass without boosting high midrange
  - elimination of low frequency “mud”
- ✓ “Real DI” with IN and THRU jacks for:
  - easy hookup to amps for simultaneous DI and amp’d tracking or live sound
  - easy hookup to other DI’s or effects for simultaneous tracking or live sound
- ✓ Totally Balanced Topology for:
  - insensitivity to ground noise/loops
  - Insensitivity to EMI, both external and from adjacent modules/power supplies
  - reduced distortion
- ✓ Rail-to-Rail design for:
  - higher internal headroom
  - higher maximum input level without pad
  - higher output level without transformer and excessive power supply current
- ✓ 0.1% precision resistors for:
  - exceptional Common-Mode and Output Signal Balance performance
  - excellent unit-to-unit sonic consistency

- ✓ Steel Enclosure for:
  - protection from EMI and RFI
  - protection from ESD and handling contamination/damage
- ✓ 4-Level Signal Meter

### ***pT2-500D SPECIFICATIONS***

Max. Output (0.001% THD): +29 dBu

THD+N (+26dBu, Gain=40dB): 0.0006%

Max.Input (no pad): +20.5dBu ( +28dBu, output at min. gain)

Frequency Response (Gain=40dB): 1.5Hz to 550KHz(-3dB)

Noise (Rs=50 ohms): -133dBu e.i.n.

Slew Rate: > 50V/uS

CMRR(CMV = +10dBu, 30Hz to 20KHz): 85dB

Low Frequency Adjust (-3dB, 6dB/oct): 40Hz, 80Hz, 160Hz, 280Hz, 400Hz

Low Gain Range, preamp: 7.5dB to 59dB

High Gain Range, preamp:24.5dB to 76dB

Input Impedance, preamp: 10Kohm

Low Gain Range, DI: -9.5dB to 42dB

High Gain Range, DI: 7.5dB to 59dB

Input Impedance, DI: 2.5Mohm

Power Consumption: +/- 16VDC, 65mA.

Physical Configuration: per API™ 500 series module specification.

(Preliminary specifications subject to change without notice)

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