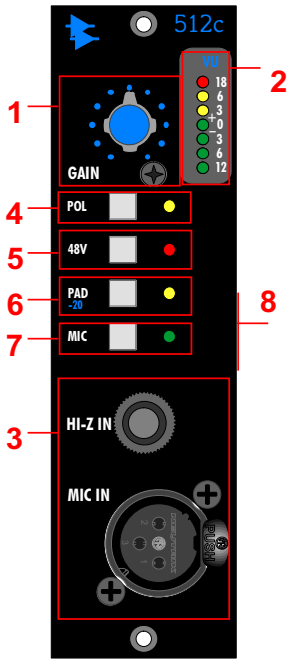
512c DISCRETE MIC / LINE PRE-AMP USER GUIDE



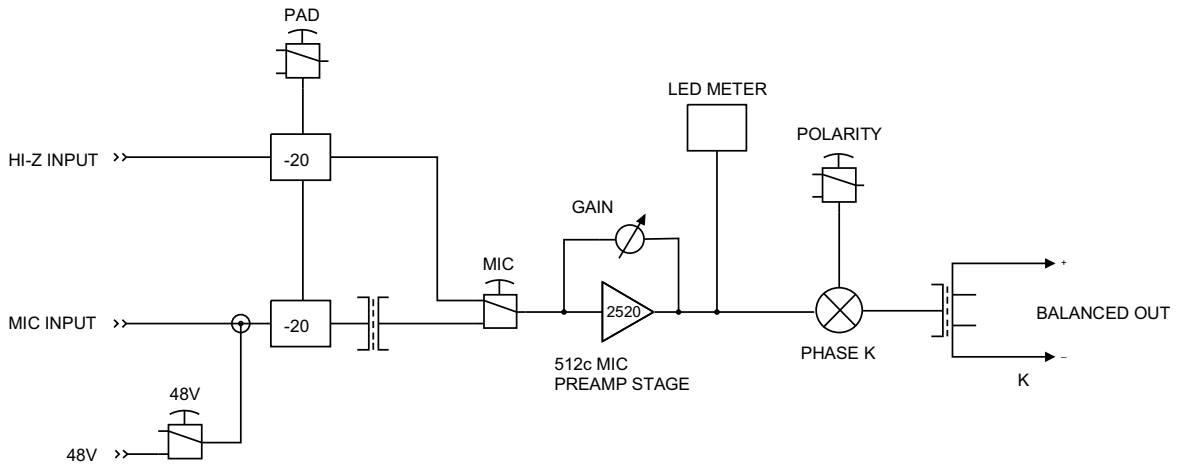
The API 512c is a highly musical, rich-sounding analog microphone / line / instrument preamplifier known for both its great-sounding front end and low noise generation in all sorts of audio applications. It artfully combines API's proprietary transformers and the 2520 op-amp while exhibiting the reliability, long life, and uniformity which is characteristic of all API products.

FEATURES:

1. Gain control: Mic preamp with gain range +34 dB to +65 dB, line/instrument preamp with gain range +14 dB to +45 dB
2. LED VU meter for monitoring output level
3. Front panel XLR (mic) and Hi-Z 1/4 inch (instrument/line) input connections
4. Signal polarity switch
5. 48V phantom switchable power
6. Pad switch (applies to XLR [mic] and Hi-Z 1/4 inch [line/instrument]) reduces input signal by 20 dB
7. Switchable input selector: when engaged - XLR (mic) input active, when disengaged - Hi-Z 1/4 inch (instrument/line) input active
8. Internal rear connection selector jumper: when engaged - enables parallel rack rear input connection capability (XLR [mic] input only)

The API 512c also comes with API's unique Five Year Warranty.

BLOCK DIAGRAM



Specifications

Front & Rear Connectors:	Front: XLR mic input, Hi-Z 1/4" unbalanced input Rear: Output on edge connector, mic input on edge connector, can be defeated
Gain Range:	Mic: 34dB to 65dB (14dB to 45dB w/PAD) Hi-Z: 14dB to 45dB (-6dB to 25dB w/PAD)
Maximum Input Levels:	Mic: +8 dBu Hi-Z input: +36 dBu
Input Impedance:	Mic: 1500 Ohms (150 Ohm mic) Hi-Z input: 400 kOhms (20 kOhms w/PAD)
Output Impedance:	Less than 75 Ohms, transformer balanced
Clipping Level:	+30 dBu
Frequency Response:	+0, -.3, 30 to 20 kHz
Signal to Noise Ratio:	120 dB
Distortion:	Less than 0.05% @ +4 out Less than 0.1% @ +28 out
Power Consumption:	± 16 Volts/DC @ 60 mA
Size:	1.5" X 5.25" X 7" deep
Size (Boxed for Shipping):	4.5" X 6.5" X 10.25"
Actual Weight:	1.41 lbs.
Shipping Weight:	1.94 lbs.