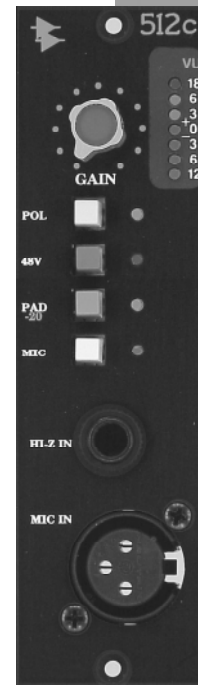# api audio products, inc. **512c**

512c Mic/Line Preamp/DI

Features

- **Mic Preamp with 65dB of gain**
- **Front and Back Panel Mic Input Access**
- **Line/Instrument Preamp with 50dB of gain**
- **Front and Back Panel Line/Instrument Input**
- **LED VU meter for monitoring output level**
- **20dB pad switch, applies to mic/line/instrument**
- **48v Phantom switchable power**
- **Traditional API fully discrete circuit design**
- **Uses the famous API 2520 Op Amp**

The API 512C is a mic/line/instrument preamp designed to provide a low noise, unusually good sounding front end for all types of audio systems. Sonically, it is at the top of the "Mic Preamp List", regardless of price. Offering low noise (-129 EIN) and 65dB of gain, the 512C includes phantom power, switchable polarity, -20dB pad and Mic/Line or Instrument selector. Front panel XLR and ¼ inch connectors combined with rear panel mic access allows for additional flexibility when installed in an API LunchBox, Six Pack, 10 position vertical rack, a 2 position horizontal rack, or an API console.

What makes the API 512C unique is its long evolution from the original 1967 era 512, the first modular mic pre, to the current full featured 512C, while preserving the original sound character that made it so much a part of the early days of recording. Offering high headroom and a wide variety of inputs and input access points, it is ideal for unusual and demanding applications.

Imagine a situation where only a few preamps are needed, yet the smallest available console has a proportionally "small" mic preamp, making it useless for the demanding application, or conversely, imagine where you need a large number of preamps, and a console of sufficient inputs and quality would be too large to transport or rack mount. The 512C hits the spot with its quality and famous tone. Expand, combine or downsize at any time without trade-ins or product obsolescence. In addition, the 512C's sound and performance exceeds most "console mic pres" in every respect.
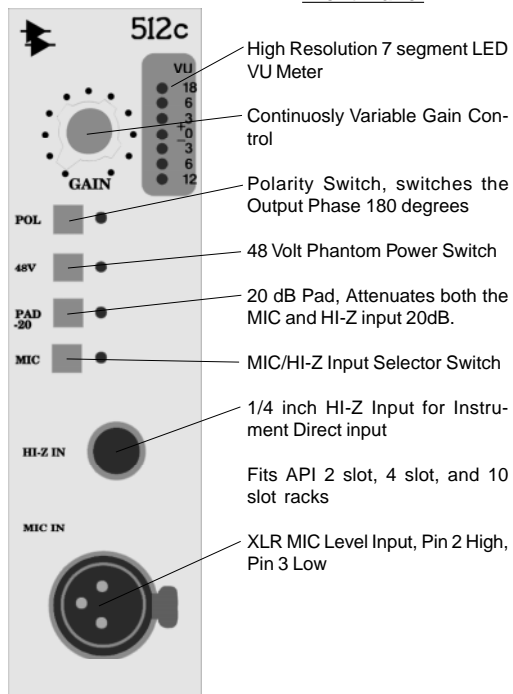
The beauty of the entire API 500 Series is its long term flexibility and lasting value when needs change over time. With a range of mounting frame options, the 512C will be a valuable asset to your performance critical applications.

The 512c Mic/Line Preamp makes use of the 2510 and 2520 Op-amps and therefore exhibits the reliability, long life, and uniformity which are characteristic of API products.

512cFeatures

api

Front Panel

512c

VU
18
6
3
+0
-3
6
12

GAIN

POL

48V

PAD -20

MIC

HI-Z IN

MIC IN

— High Resolution 7 segment LED VU Meter

— Continuosly Variable Gain Control

— Polarity Switch, switches the Output Phase 180 degrees

— 48 Volt Phantom Power Switch

— 20 dB Pad, Attenuates both the MIC and HI-Z input 20dB.

— MIC/HI-Z Input Selector Switch

— 1/4 inch HI-Z Input for Instrument Direct input

Fits API 2 slot, 4 slot, and 10 slot racks

— XLR MIC Level Input, Pin 2 High, Pin 3 Low

Connector Pinout
Rear View

A	1	**CHASSIS**
B	2	512c 525 550b 560b OUTPUT + (+4)
C	3	512c 550b 560b OUTPUT + (-2)
D	4	512c 525 550b 560b OUTPUT LOW
E	5	**AUD GND**
F	6	525 STEREO LINK N/C 512c 550b 560b
H	7	INPUT LOW (-2) 560b INPUT LOW (+4) 512c 525 N/C 550b
J	8	INPUT LOW (+4) 512b 525 560b INPUT LOW (GND) 550b
K	9	INPUT HI (-2) 550b 560b INPUT HI (+4) 512c 525
L	10	INPUT HI (+4) 512c 525 550b 560b
M	11	GAIN ADJ 550b 560b N/C 512c 525
N	12	**+16 VDC**
P	13	**PWR GND**
R	14	**-16 VDC**
S	15	+48 V PHANTOM 512C

512c Specifications

Rear Connector: Output on edge connector, MIC Input on edge connector, can be defeated

Front Connectors: XLR MIC Input, HI-Z 1/4" Unbal Input

Gain Range: MIC, 10dB min, 65dB max. Unbal HI-Z Input, 14dB min, 50dB max.

Maximum Input Levels: MIC, +8dBu, Unbal HI-Z Input, +36dBu

Input Impedance: MIC Input, 1500 Ohms (150 ohm mic), HI-Z Unbal Input, 20k Ohms

Output Impedance: Less than 75 Ohms, Transformer Balanced

Clipping Level: +30dBu

Frequency Response: +0, -.3, 30 to 20kHz

Noise: Equivalent Input Noise: -129, Mic In. -125, Un-Balanced In. Actual Metered Noise: Mic, -95dBu, Un-Bal., -90dBu

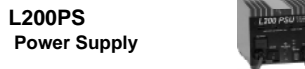**Distortion:** Less than .05% @ +4 Out, Less than .1% @ +28 Out

Size: 1.50" X 5.25" X 6" Deep

Shipping Weight/Actual Weight: 2lbs./1lb. 7oz.

Power Consumption: ±12/18 Volts/DC, @40 ma.

Rack Frame and Power Supply Options: Fits 500H (2 slot, internal power supply), 500b4 "Lunchbox" (4 slot internal power supply), 500V (10 slot, requires 200PS Power Supply), API Legacy Consoles and vintage API Classic Consoles.

Mounting Frame and Power Supply Options

500H
2 Slot frame with internal power supply

500b4
4 slot "Lunchbox" Frame with internal Power Supply

500V
10 Slot Frame

L200PS
Power Supply

Represented by:

api audio products, inc.