

api audio products, inc.

# 3124+ 3124m+

## 3124+ / 3124m+ Mixer

### Features

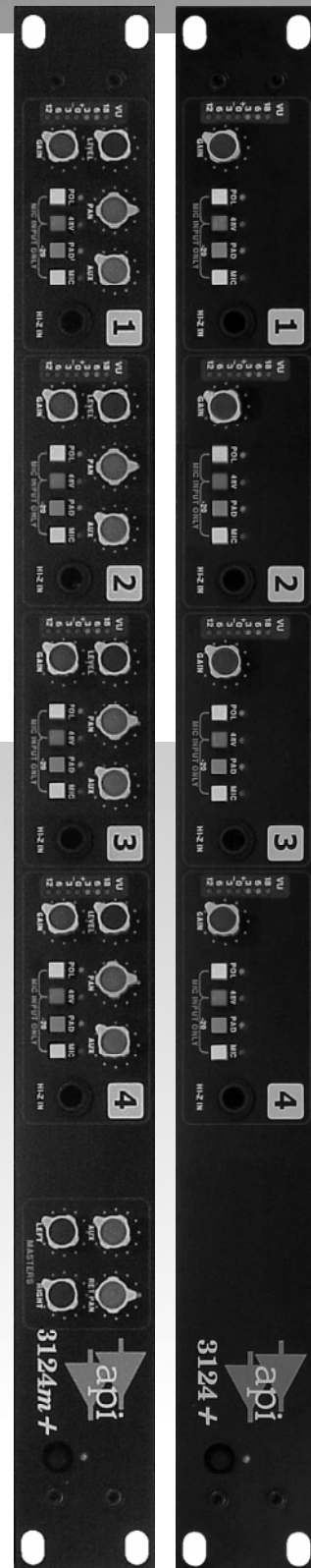
- Uses API 2520 Op Amp
- Classic Console Circuit
- Four XLR Mic Inputs
- Four 1/4" Un-Balanced Inputs
- Front Panel Polarity Switch
- Front Panel 20dB Pad Switch
- Front Panel Mic / Line Switch
- Front Panel 48V Power Switch
- Output Clips at +30 dBm

Both the 3124+ and the 3124m+ are designed with the professional engineer in mind, giving the highest possible quality 4 channel Mic Preamp and with the 3124m+, an audio mixer, while keeping the size and price at a reasonable level. Several 3124m+ mixers can be linked to increase the number of bussed channels. Both models are equally at home in the control room, the studio, a news or recording truck, at the house console, on the stage, direct-to-DAT, or at the artist's disposal for the source of his music.

The model 3124+ utilizes the same microphone preamp circuit that is used in all API consoles. It uses the RE-115K mic input transformer and the same output transformer that is used in all API equalizers. All four mic inputs of the 3124+ and the 3124m+ are powered by an internal 48 volt phantom power supply, front panel switchable for each channel. Also provided is a front panel 20dB pad switch that effects both the Mic and Line in.

The model 3124+ can provide up to 65 dB of gain to an output clip level of +30 dBm. The Hi-Z front panel input goes directly to the op amp, allowing a low level input such as a guitar or bass to be amplified without a matching transformer or direct box. This Hi-Z input can take input levels as high as +22, making it perfect for keyboards and other high level devices. The rear output is an XLR connector.

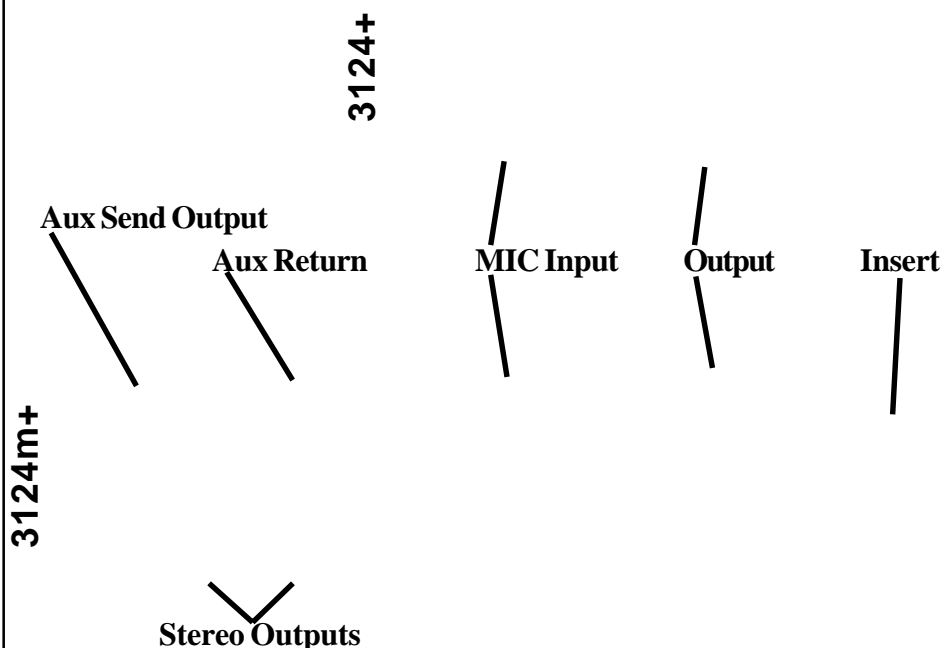
The Model 3124m+ is a 3124+ with the addition of a complete stereo mixer. In conjunction with the gain control of the 3124+, the 3124m+ adds a stereo panner with a level control, and a post "fader" aux send. The stereo panners and the aux sends are bussed to master output controls and then to the rear panel jacks. A stereo aux return is provided to return effects or cascade additional mixers for more inputs. The unique aux return pot acts like a panner to balance the left/right signal, yet staying stereo. It can also be used as a mono return. A standard 3124+ can be further expanded to an "m" at the factory. Several options for the "m" include a discrete unbalanced stereo output or a discrete balanced stereo output.





## 3124+ and the 3124m+ Features

Rear Panel



### 3124+/3124m+ Specifications

**Input Impedance:** 1500 Ohms Mic, 470K Ohms Un-Balanced, HI-Z in

**Output Impedance:** Less than 75 Ohms Channel Outputs

**Nominal Levels:** XLR Channel Output +4dBu

**Stereo Output Level:** Unbalanced: nominal -2, Balanced: +4

**Clipping Level:** XLR Channel Output better than +28dBm

**Frequency Response:** +0, -5, 10Hz to 20kHz (-5 at 10Hz)

**Noise EIN:** -129 Mic, -125 Un-Bal. Actual

**Measured Noise:** Better than -91dBm / below Nominal +4.

**Distortion:** All Outputs at +4 out, .03%, at +22, .09% Max,

**Gain Range:** 150 Ohms Input 10dB Min., 65 dB Max (inc. PAD). Un-Bal. Input 14dB Min., 50 dB Max

**VU Meter:** Calibrated for XLR Outputs, OVU=+4dBu, (-12, -6, -3, 0, +3, +6, +18)

**Controls:** GAIN, PAD (20dB), 48Volts, POL (polarity), MIC (mic/un-ba.), VU, AC

**Size:** 19" X 1U X 8"

**Shipping/Actual Weight:**

**3124+: 13lbs./11lbs.**

**3124m+: 11lbs./9lbs.**

### Other High Quality Products from API

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frame with  
internal power supply

**500b4**  
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