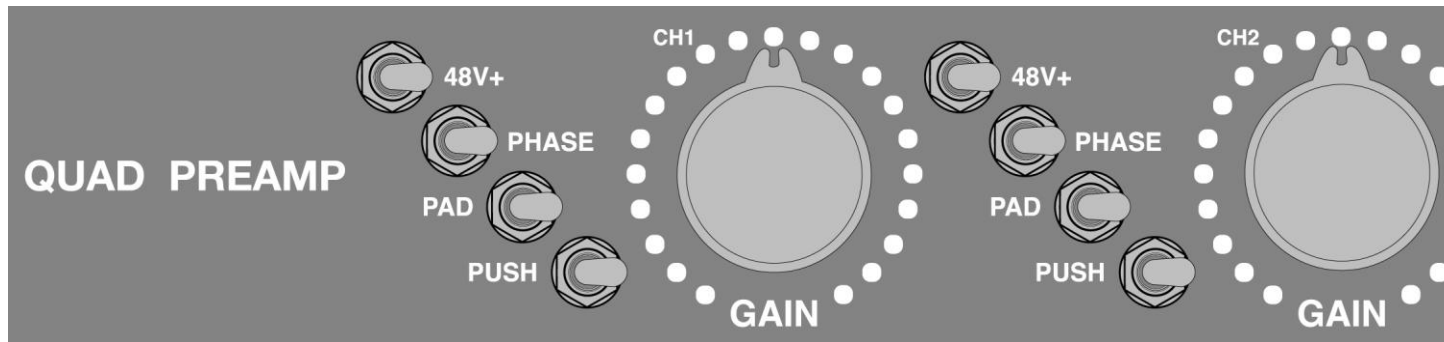


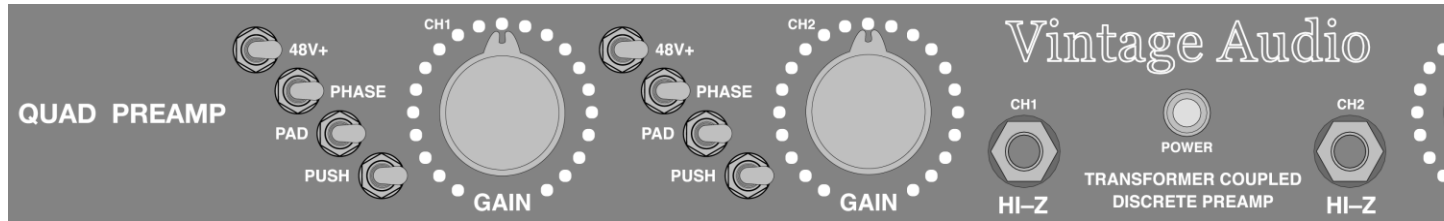
Vintage Audio

M12



*Quad Channel Discrete
Preamplifier*

M12 Quad Channel Discrete Preamplifier



Congratulations on your purchase of your new Vintage Audio M12 Quad Channel discrete Microphone Preamplifier

The M12 is based on the American classic 312 preamp and is a faithful reproduction using a custom designed Cinemag input transformer with the proper turns ratio and character you expect from this highly sought after design.

The circuit delivers about 65db worth of gain at the output and is a fast and clear preamp with good color and transformer saturation.

The heart of the M12 is a Gar 2520 Discrete operational amplifier that provides great bandwidth and ample gain. The output utilizes a High Output, excellent bandwidth Cinemag Output Transformer.

We put tremendous effort into all of our preamps and compressors to make your music more enjoyable and your sessions less dull. Each unit is hand built to our specifications and is constructed of nothing but the highest quality parts. As with all of our preamps the **M12** uses remote relay switching which shortens the signal path and lowers noise making the preamps performance even better. Excellent filtering is also provided to lower ripple and thus lower the noise floor even further making them extremely quiet in terms of self noise.

Our **M12** model comes with a full one year warranty and is built to the highest standard using the highest quality components.

Caution!

As with all professional equipment, please be sure to read all necessary literature prior to hooking devices up and powering them on. All units are set for voltage based on the original sale destination. Please consult the tag below the AC inlet if you purchased a unit “used” or second hand to make sure it is set for the right voltage before applying AC voltage.

About Vintage Audio

Vintage Audio is a small group of folks who love electronics and music. All are musicians and Geeks at heart. Johnny Five is a screen saver and Star Wars and Star Trek share the airspace. We have been building pro audio gear for years and have a real passion for offering affordable, extremely well made reproductions to the audio community.

Note!

We are not re-inventing the wheel; Vintage Audio’s mission is to recreate the best sounding modern reproductions of some of the most sought after classic circuits in the world. We have a lot of experience on what it takes to make an excellent sounding preamp or compressor. We hand select all of our components, pieces and parts based on the character they impart and reliability. Most parts are Mil Spec, are designed to last and provide years of unparalleled performance.

All of our designs are set up to be extremely simple to use and obtain great results.

On to the good stuff!

So about your new preamp

The Vintage Audio *M12* Quad channel preamp utilizes a transformer coupled Cinemag input and a traditional transformer coupled for wonderful color, musicality and frequency response.

The heart of the *M12* is a 2520 transistor based discrete operational amplifier. For the design we chose that the opamp be socketed to make it easy to switch the preamp to other varieties of discrete opamps such as the 990 or 1731. It is as easy as pulling the old one out and dropping a new one in, however the service must be performed by Revive Audio to keep your warranty Valid.

The Gar 2520 Opamp comes stock with the M12 and was chosen because it most closely reflects the original design. It is an extremely fast opamp with a very good slew rate and excellent frequency response.

The M12 Sounds excellent in all the applications you would think to use a classic 312 preamp on such as: drums, acoustic guitars and other stringed instruments.

The 312 design is an American Classic used on a lot of your favorite recordings. It is detailed, open and captures a lot of the top end transients that other preamps don't due to its incredibly fast and accurate nature.

The 312 has become a favorite on drums for just this reason, the incredibly fast nature of the 312 helps to capture snap and detail in instruments like drums and acoustic guitars resulting in less top end boosting at mix down and a more natural sounding recording.

When driven correctly the small amount of overdrive for the circuit really pushes drums up in the mix and creates great tracks with less effort.

In the next section you will find a list of all controls to help you get started.

Front Panel Controls Overview



Gain Control: The gain control determines the amount gain that the 2520 amp delivers to the output. The user simply needs to rotate the control until the desired level is reached. The M12 delivers 65db of gain at the output. Typically with high dynamic range instruments you will want this control turned all the way down and the pad engaged.

Phase Switch: This switch, when engaged, flips the polarity of the input pre input transformer and essentially switches pins 2 and 3 for 180 degrees of phase correction. This is particularly nice on drums and other instrument where this type of phase correction is necessary.

Pad Switch: This switch engages a 20db pad that is pre input transformer for those instruments with a high dynamic range. Your converters and ears will thank you to have the pad engaged when miking drums!

Push Switch: This switch engages a 10db pad that is positioned right before the output Transformer. This option allows the amp and the output transformer to be driven harder. The result is more break-up and more saturation which a lot of folks like on instruments like Drums.

48V (phantom switch): This switch simply engages the 48V on board phantom for condenser microphones requiring a phantom power supply.

Hi-Z input: HI-Z direct inputs on the *M12* for instruments and line signal. These Direct inputs are for channels one and two.

Power LED: Simply lets you know that is ALIVE!

All controls have been made simple and easy to understand so again, you can focus on the music.

Back Panel Overview



Input: Signal inputs for all four channels are inputted here. Microphone as well as line signals can be inputted into the M12. When using line level signals make sure to have the 20 db pad engaged.

Outputs: Signal output for channel one and channel two. The signal here, as well as at the input, is balanced.

Please note: that transformer coupled outputs (as in the *M12*) require a balanced connection either: electronically, with a transformer or Psuedo-balanced. Failure to use a balanced connection to interface with the output of your M12 will result in the absence of audio and “no worky” like condition when it comes down to tracking time. Please consult your owner’s manual of any devices you are planning on interfacing with the *M12**.

Power Switch: When engaged this provides Ac mains voltage to the unit and powers it on.

AC power inlet: Please consult the tag by the Ac power inlet for the correct voltage and fuse rating. Voltages are set upon assembly and the label will indicate which voltage it is set for as well as the appropriate fuse rating.

*Psuedo-balancing is fairly simple and merely requires that pins 1 and 3 be tied together in either the cabling or at the jack. For ¼ and TT connections this equates to Ring and Sleeve. This is the easiest and most cost effective solution though balancing is best for the lowest noise and best performance

Specifications

Input Impedance: 1.5k Ohm Floating, transformer coupled.

Output Impedance: 600 Ohm Floating transformer coupled

Gain: 65 db of total gain

Pad: -20db

Output clipping: +22db

Fuse: 250V Slow Blow 5x20mm, 630ma (120vac), 315ma (240vac).

Dimensions: 19x1.75x12 inches

Weight: 18 lbs boxed

**Note: Mains voltages are set when the unit is constructed. All units are wired
for their Destination.**

**The Serial label contains information on what voltage the unit is wired for as
well as the correct 250v fuse rating.**

***DO NOT CONNECT AC MAINS IF THE VOLTAGE LISTED ON THE LABEL IS
DIFFERENT THAN YOUR LOCAL MAINS VOLTAGE!***

Vintage Audio

All Vintage Audio products come with a full One Year warranty against defect
and are built to the highest standard.

For more info on this or other Vintage Audio products or to request service
please see us at ReviveAudio.com

Again, Thanks for your purchase!

We are confident that you will enjoy your new Vintage Audio unit for years to
come.

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Vintage Audio

Caldwell, ID

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