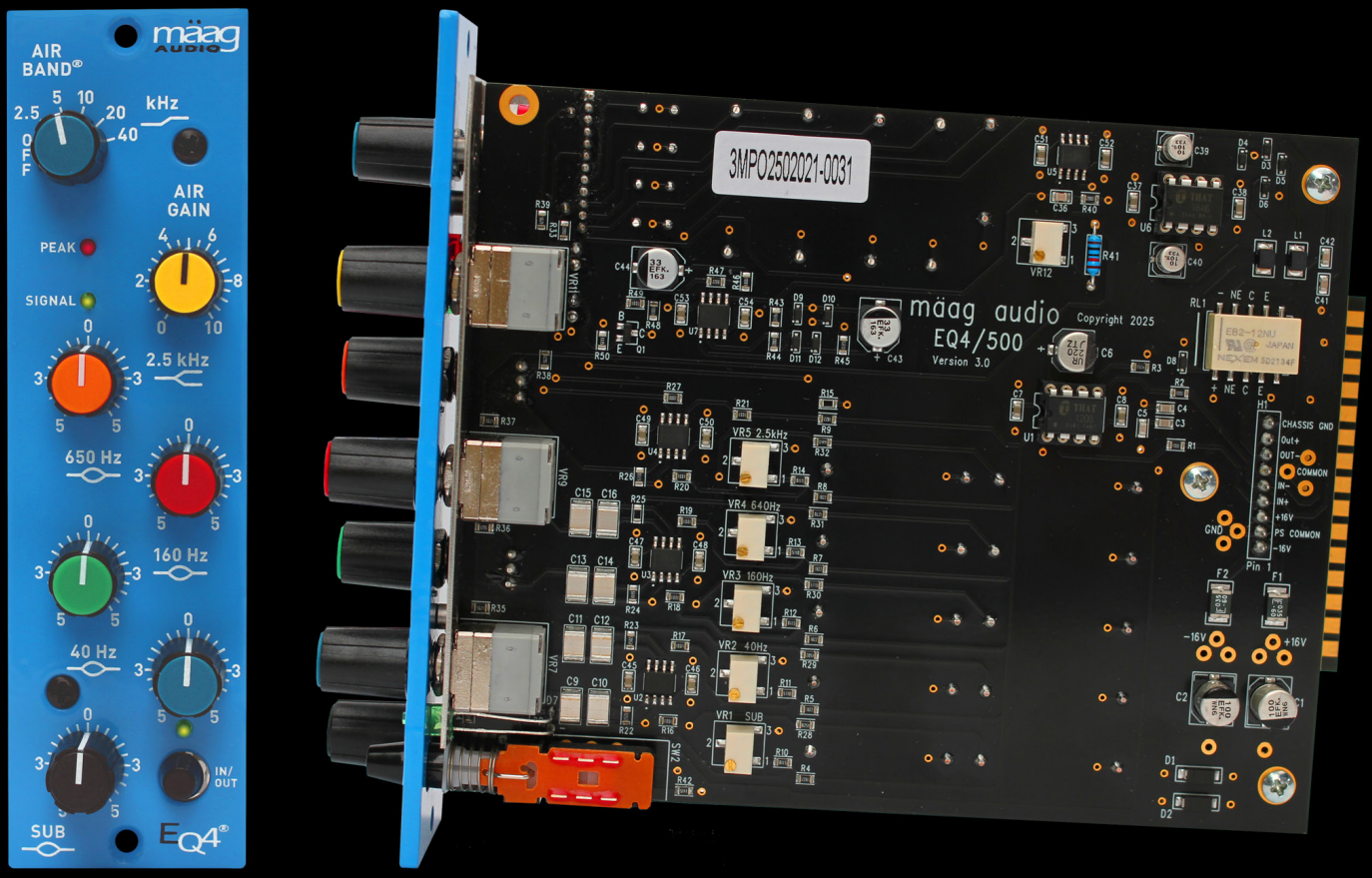


EQ4-500 | 6 BAND EQUALIZER WITH AIR BAND®

USER MANUAL

WWW.MAAG.AUDIO

COPYRIGHT © 2011-2025 MAAG AUDIO, LLC

PRODUCT REGISTRATION

Please complete the product registration form for your Mäag Audio equipment to be registered for warranty and product updates.

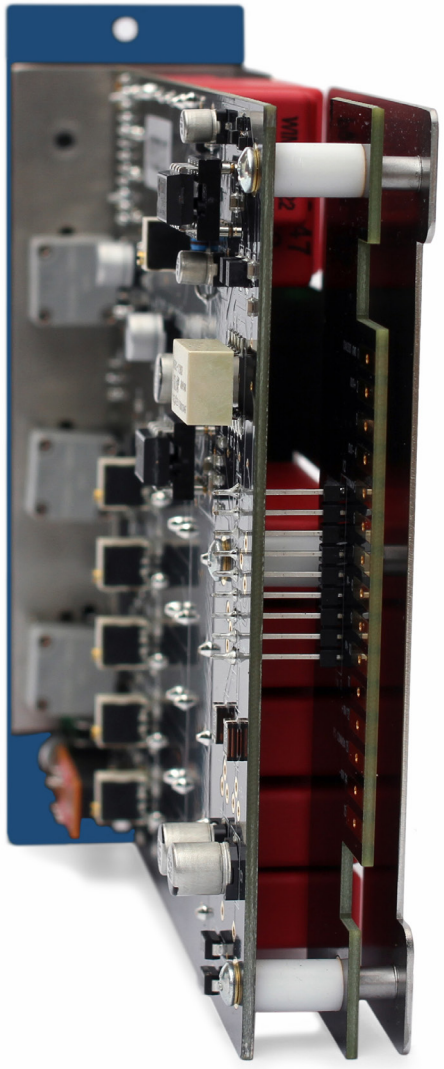
CLICK HERE TO REGISTER NOW

PROTECT YOUR EQUIPMENT

We will keep the model number and date of purchase of your new Mäag Audio product on file to help you refer to this information in the event of an insurance claim such as loss or theft.

SAFETY & INSTALLATION

This page provides definitions, warnings, and practical information to establish a secure working environment. Prior to installing or using this apparatus, we encourage you to take a moment to read through this page.



GENERAL SAFETY

- Please read these instructions.
- Take heed of all warnings.
- Adhere to all provided instructions.
- Avoid using this apparatus near water.
- Ensure this apparatus is not exposed to rain or moisture.
- Clean exclusively with a dry cloth.
- Prevent obstruction of any ventilation openings.
- Install in accordance with the instructions from the rack manufacturer.
- Note that there are no user-adjustable or user-serviceable items on this apparatus.
- Any adjustments or alterations to this apparatus may impact its performance, potentially leading to a failure to meet safety and/or international compliance standards.
- Refrain from using this apparatus in safety-critical applications.

CAUTION

- This apparatus should not be used outside of the scope of 500VPR racks.
- Do not operate this apparatus with any covers removed.
- To reduce the risk of electric shock, do not perform any servicing other than that contained in these Installation Instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

INSTALLATION

- Make sure to disconnect power from the rack before installing or removing this apparatus.
- Utilize the panel fixing screws provided with the rack to securely fasten this apparatus into place.

CONFORMANCE TO STANDARDS

This device is intended for installation and operation in Mäag Audio 500 series compatible racks with a CE mark. The CE mark on the rack indicates that the manufacturer affirms its compliance with both the EMC and the Low Voltage Directive (2006/95/EC).

COPYRIGHT © 2011-2025 MAAG AUDIO, LLC

OVERVIEW & OPERATION NOTES

The **Maag Audio EQ4**® (500 Series) is a one channel 6 band equalizer with **AIR BAND**® (shelf boost from 2.5 to 40kHz), compatible with the API 500-6B lunchbox® and 500VPR rack systems. Following its EQ3 and EQ3-D predecessors, the EQ4® provides unparalleled transparency and top end presence while maintaining the true natural sound behind the mix. EQ adjustments are obtained with minimal phase shift and detent controls allow for easy recallable settings.

Presented in the flagship lunchbox® portable format, the EQ4® offers the legendary **AIR BAND**® and five other sonically superior band passes. Maag Audio is an official member of the VPR Alliance.



OPERATION NOTES

Because of the Maag Audio EQ4's unique design, phase shift is very minimal. This helps the user maintain the integrity of the original sound and enhance the "Airy" frequencies, while tonally shaping the sound from the top to the bottom. The lack of phase shift and the AIR BAND® make the EQ4® great on anything that needs EQ shaping.

The EQ4's band passes all interact with each other. Increasing the AIR BAND® gain will also increase the overall gain to a small extent. This is normal and is a necessary by product of the design. This happens because of the interaction (summing) of the AIR BAND® with all of the other band passes. This interaction is a necessary part of the design to ensure the integrity of the sound is maintained. **To compensate for the added overall gain, simply turn down each of the 5 band pass knobs equal amounts**. An example would be two clicks down on all 5 knobs. The EQ will remain the same shape, but the overall gain will be lowered. This compensates for the extra gain added from the interaction of the boosted band passes. This is the correct way to get the desired results from the Maag Audio EQ4®. Here is another way to look at it: **If lifting a desired frequency, you may want to consider bringing down the level of the other band passes above and or below**; always remembering the band passes interact with each other. This is a different approach from other typical equalizers.

Understanding how the band passes and the AIR BAND® interact in the Maag Audio EQ4®, will help you better shape your sound; providing unparalleled transparency and top end presence while maintaining the true natural sound behind the source.

COPYRIGHT © 2011-2025 MAAG AUDIO, LLC

FUNCTIONS & TECH SPECS

AIR BAND®
Boost only shelf at 2.5 kHz, 5 kHz, 10 kHz, 20 kHz, and 40 kHz. The frequencies below the shelf peaks are also affected due to the transitional slope.

PEAK
Red LED starts to illuminate when the output signal reaches 23 dBu.

SIGNAL
Green LED indicates audio signal presence. Illumination starts @ -20 dBu

2.5 kHz
Fixed boost and cut shelf
(+15 dB, -4.5 dB)

160 Hz
Fixed boost and cut bell
(+15 dB, -4.5 dB)

SUB (10 Hz)
Fixed boost and cut bell
(+15 dB, -4.5 dB)



AIR GAIN
Gain control for the AIR BAND
(+20 dB max gain)

650 Hz
Fixed boost and cut bell
(+15 dB, -4.5 dB)

40 Hz
Fixed boost and cut bell
(+15 dB, -4.5 dB)

IN/OUT
Engages and disengages EQ

TECHNICAL SPECIFICATIONS

*Specification	Value	*Specification	Value
Frequency Response	-2dB points, 10Hz & 75kHz	Headroom	+25 dBu
Nominal Input Impedance (XLR)	48 K Ohms, balanced	THD + Noise	< 0.005%
Nominal Output Impedance (XLR)	50 Ohms, balanced		

*Specifications subject to change without notice.

COPYRIGHT © 2011-2025 MAAG AUDIO, LLC

WARRANTY & REGISTRATION

PRODUCT WARRANTY

Maag Audio expressly warrants its products for a period of one (1) year from the date of purchase. Products will be free of manufacturing defects. Within the warranty period, a product will be tested, repaired or replaced at the sole discretion of Maag Audio, free of charge. All warranty service will be conducted through authorized Maag Audio dealers only. The end user is required to provide proof of purchase (receipt or invoice) of the product. This warranty is offered solely to the original purchaser of the product from an authorized Maag Audio dealer and is not transferable. This warranty does not include the shipping charges to and from the authorized Maag Audio dealer from whom the product was purchased. Maag Audio will pay for shipping costs between the dealer and Maag Audio. All warranty service requires a Maag Audio issued RMA number. Please conduct warranty service communication with an authorized Maag Audio dealer.

WARRANTY EXCLUSIONS

The foregoing express warranty is made in lieu of all other product warranties, expressed and implied, including merchantability and fitness for a particular purpose which are specifically disclaimed. The express warranty will not apply to defects or damage caused by post purchase shipping and transportation, storage, careless handling, nor damage caused by misuse, hot swapping, accidents, neglect, alterations, operator error, or failure to properly maintain products.



PRODUCT REGISTRATION

Please complete the product registration form for your Mäag Audio equipment to be registered for warranty and product updates.

CLICK HERE TO REGISTER NOW

COPYRIGHT © 2011-2025 MAAG AUDIO, LLC



Mäag Audio, LLC