

PREQ2-500 | MIC PREAMP WITH AIR BAND®

USER MANUAL

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PRODUCT REGISTRATION

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

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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).



OVERVIEW



Mäag Audio PreQ2-500 is a single channel, 500-series version mic pre-amp with the same circuit topology and sound as their top-of-the line Mäag Audio PREQ2 Dual-Channel Strip with Air Band®.

The PreQ2-500 has a total of 71dB of Class-A gain that starts with the same Mäag Audio-built nickel-core input transformer as the 1U dual channel PREQ2. Just like the PREQ2 Dual Channel Strip, it includes a front panel ¼-inch (1-meg-ohm) Instrument Input jack that when used, automatically routes its signal to the input transformer and also disconnects the 48-volt phantom power if already turned on.

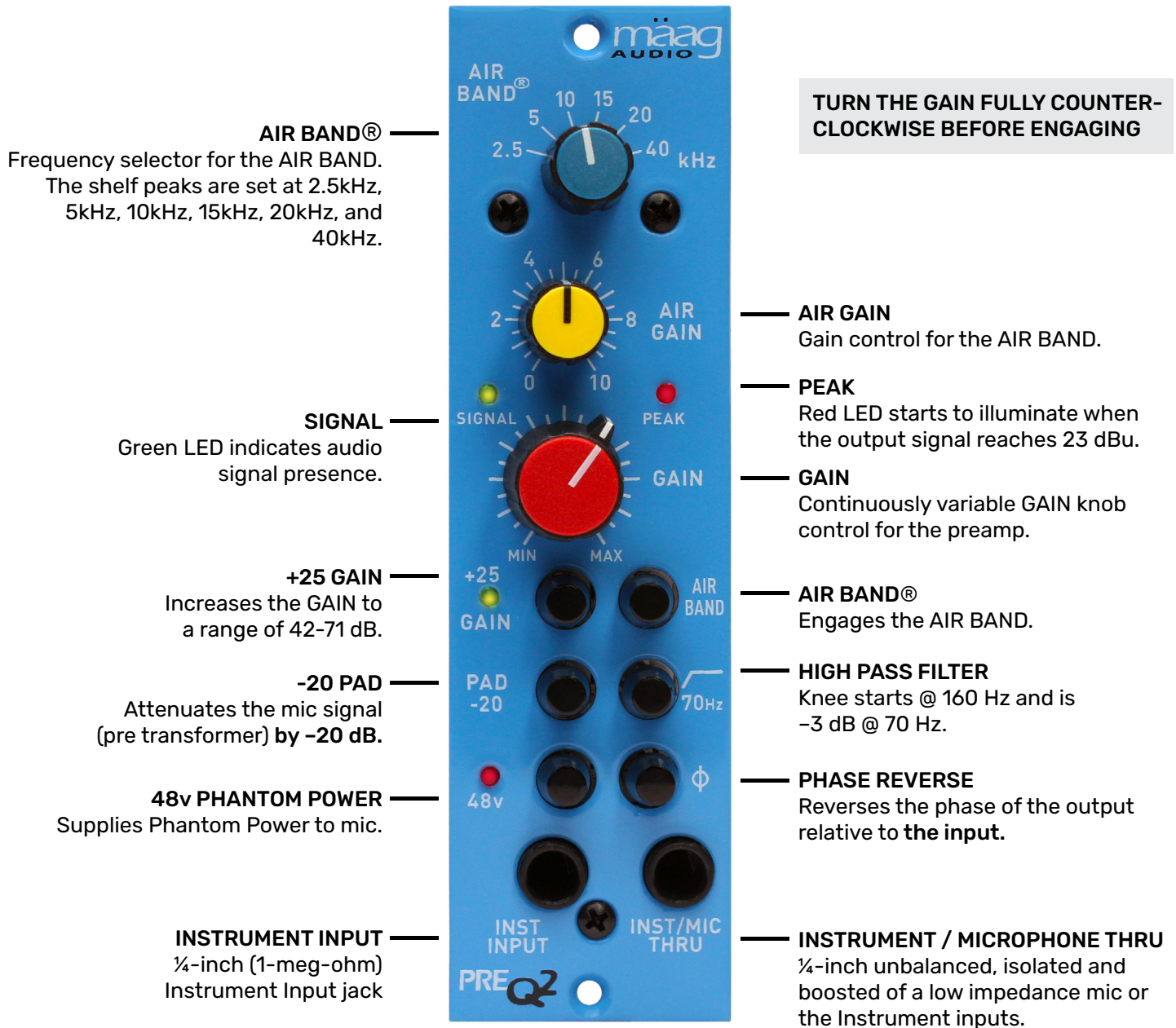
The front panel continues with a ¼-inch Thru/Output jack that provides an unbalanced, isolated and boosted “duplicate” of either the low impedance microphone or the Instrument inputs. The Thru/Output signal is capable of driving a long line out to guitar amps in the studio and/or effects pedals effectively and without quality loss. Great for creating unique effects, you may “re-amp” and externally process either the low impedance microphone input signal or any instrument directly connected to the PREQ2’s front panel ¼-inch input jack.

The PREQ2-500 has an Equivalent Input Noise (EIN) level of -128dBu, +25dBu of headroom, plus the acclaimed AIR BAND® EQ with up to 9dB of boost at your choice of 2.5, 5, 10, 20 and 40-kHz frequencies.

Microphone gain is continuously variable using a single, large control knob that is switchable between two gain ranges of either +20dB to +42dB for most recordings or +42dB to +71dB using the +25dB boost button. This higher microphone gain is noise-free and perfect for very quiet sources like Foley/sound effects or low output, old vintage mics.

The compact front panel finishes with push-button switches for +48-volt phantom power on/off, -20dB attenuation pad, a 70Hz, 2nd order 12dB/Oct high pass filter, phase or polarity reverse, and AIR BAND® EQ on/off.

FUNCTIONS & TECH SPECS



TECHNICAL SPECIFICATIONS

- Max Gain 71dB
- Noise level at the lowest gain setting is -100dB. EIN is -128dB
- Balanced XLR output headroom is +25dBu
- The microphone transformer feeds a differential set of front-end Class A discrete transistors paired with a FET input operational amplifier.
- High and low gain push button switch. Low range: +20dB to +42dB. High range (gain +25 switch with green LED): +42dB to +71dB. Switchable -20dB pad
- +48-volt phantom power, switchable, with red LED.
- Phase reversal switch: switches the phase of the balanced output.
- Green signal present LED, red peak LED lights at +25dBu.

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.



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