KAHAYAN PBX-1 EQ

STEREO PARALLEL TUBE EQUALIZER

OPERATOR'S MANUAL

Version 1.0

KAHAYAN®
PRORADIO

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## TABLE OF CONTENTS

- IMPORTANT SAFETY INSTRUCTIONS ........................................... 3
- INTRODUCTION ........................................................................ 4
- SETUP AND BASIC ASPECTS .................................................. 5
- SPECIFICATIONS & WARRANTY .............................................. 7
- Q&A ...................................................................................... 8
- RECALL SHEET ....................................................................... 9
- CREDITS ............................................................................... 10
IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions
2. Keep these instructions
3. Heed all warnings
4. Follow all instructions
5. Do not use this apparatus near water
6. Clean only with dry cloth
7. Install in accordance with the manufacturer's instructions
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat
9. Protect the power cord from being walked on or pinched particularly at plugs and the point where they exit from the apparatus
10. Only use attachments/accessories specified by the manufacturer
11. Unplug this apparatus during lightning storms or when unused for long periods of time
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped
INTRODUCTION

The Kahayan PBX-1 is a Stereo Parallel Tube EQ in 3U rack format that brings the analog warmth tube sound to your tracks. A combination between modern convenience and the great sweet EQs.

With 2 gain controls: Low and High. You can boost or cut the frequency point chosen. This gives you the option of sculpture your mixes or tracks in an easy and fast way.

All the frequency points of the EQ have been care selected to have musical response to the user. Don’t afraid of the point, just listen and enjoy.

Because of the modern styles some time you need to bring life the low frequency without muddying the mids. This control is linked to the Low frequency control and allows you to attenuate the mid linked frequency to each frecuencial point, and this results of clean the mid range liken to the low one.

Thanks to the Blender control you can do parallel processing and create more space boosting some frequencies and then adjusting the blender control. Be creative.

Output transformer bypass switch. This output transformer is part of a classic midrange sound, when you bypass it, you smooth the dynamic of the sound, so you have a new sound option.

For more information please visit: www.kahayan.es
1. **BOOST/CUT GAIN CONTROL** Boost or cut the low frequency point chosen.

2. **LOW FREQ CONTROL** The low frequency points of the EQ in herzts.

3. **MID CUT CONTROL** This control is linked to the Low Freq Control and allows you to attenuate the mid linked frequency to each frecuencial point, and this results of clean the up-mid range liken to the low one.

4. **HIGH FREQ CONTROL** The low frequency points of the EQ in herzts.

5. **BOOST/CUT GAIN CONTROL** Boost or cut the high frequency point chosen.

6. **IRON BYPASS** Output transformer bypass switch. This output transformer is part of this classic midrange sound, when you bypass it you have smooth more dynamic sound, so you have a new sound option. When the Led is on, the transformer is out of the signalpath.

7. **IN CONTROL** Bypass the EQ when the led is off.

8. **BLEND CONTROL** The Dry/Wet blend control determines the balance between the original and the processed signal. The range is from 0% (dry, unprocessed) to 100% (wet, processed signal only). And it is located in the signal path after the drive and output control.

9. **ON/OFF** Power on/of switch.
Rear panel:

1. **AC input**: Power connection.

2. **Voltage switch**: 110/230 volt switcher.

3. **Main outputs**: Left and Right outputs on XLR.

4. **Main inputs**: Left and Right inputs on XLR.
SPECIFICATIONS

• 2 Outputs: Balanced XLR (accepts unbalanced) & Unbalanced 1/4”
• 2 Level +4 dBu nominal
• Bypass Switch bypasses EQ & tube circuits
• Iron Bypass Switch
• Frequency Range: 20 Hz to 26 kHz
• Maximum Input Level: +21dBu
• Tube model: EF86 x2
• Power Consumption (120/230VAC): 70 watts
• Mains Voltage & Frequency (VAC/Hz): Internal Universal Power Supply 100-230 VAC / 50-60Hz
• Weight: 7,5Kg

The manufacturer reserves the right to change the technical specification of the product without prior notice.

WARRANTY

These products are guaranteed for a period of two years from the date of shipment to the end user for countries of the European Union. For other countries, please refer to the law in effect.

During the warranty period Kahayan Pro-Audio will, at their discretion, either repair or replace products which prove to be defective, provided that the product is returned to an authorised Kahayan service facility. The warranty will not cover shipping the unit back to the Kahayan service facility, unless the customer determines otherwise with his dealer/distributor.

Defects caused by unauthorised modifications, accident, negligence or any misuse are not covered by this warranty. For further information please contact your dealer or the distributor in your country.
Q&A

Q: HOW DOES THE PBX-1 EQ COMPARE TO OTHER HIGH END EQS? It probably can't be compared. In fact, it is so different, that perhaps we should call it ‘tone shaper’. We mean, thanks to the Blender control, the Iron Bypass and the tube sound, you can model and sculpt the sound in a way that other Eq`s can't. So it is designed as a creative tool.

Q: IS IT A PARAMETRIC EQ? No, it is more a Baxandall EQ combined with the Mid-cut control that gives a unique curve frequency response. So you can create new tone filters reactions to the sound.

Q: WHAT IS THE PRIMARY INTENDED APPLICATION? This is designed primary for the master bus in a mix, but this is an EQ for the Music...this EQ is equally suited for tracking, mixing and mastering, and to create something different that from your original source.

Q: WHAT EXACTLY IS THE ‘IRON BYPASS’ BUTTON? This is an output transformer bypass switch. This output transformer is part of a classic midrange sound, when you bypass it, you smooth the dynamic of the sound, so you have a new sound option. We use to recommend it we you hit hard the input of the Equaliser, for example, at the output of a analog console, or a summing mixer or even as the master insert in your DAW. In those cases, users tend to work in high volume levels so if you press the Iron Bypass, the PBX.1 Eq will sound a bit more dynamic and open. But maybe you prefer the sound of the transformer: just try and enjoy!

Q: WHAT TUBES DO I NEED? The PBX-1 Eq works with EF86 tubes. As well known, the life of the tubes down with the pass of the years. In case you have to replace it, very simple: open the top cover with the unit completely off. And you will see the tubes inside the unit. Take out those tubes from the socket tube and replace it.
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