MIAD AUDIO

Professional Audio Equipment
for Recording, Mixing and Mastering

Operator's Manual

Version 1.0

PS230

External Linear Power Supply

Visit MIAD AUDIO at:

www.miadaudio.com

As research and development is a continual process, MIAD AUDIO reserves the right to change the features and specifications described herein without notice or obligation.

MIAD AUDIO cannot be held responsible for any loss or damage arising directly or indirectly from any error or omission in this manual.

PLEASE READ ALL INSTRUCTIONS, PAY SPECIAL HEED TO SAFETY WARNINGS.

E&OE

Company: MIAD AUDIO Michail Gounelas **VAT No.** PL7010442720
Address: Gazeli 11A/2, Lesznowola, 05-506, Poland
Tel: +48 882153350 **Email:** info@miadaudio.com **Web:** www.miadaudio.com

Table of Contents

Important Safety Notices

GENERAL SAFETY

- Please read these instructions.
- Adhere to all warnings and follow instructions.
- Do not operate this unit in the presence of rain, liquids, or condensing moisture. **Liquid entering the product enclosure presents the risk of fire or electric shock injury**.
- Clean only with a dry cloth and never when the unit is powered.
- Do not place heavy objects on the unit.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other devices that produce heat.
- Use only attachments/accessories specified by the manufacturer.
- Refer all service to qualified personnel.
- MIAD AUDIO does not accept liability for damage caused by maintenance, repair or modification by unauthorized personnel.
- Do NOT modify this unit, alterations may affect performance, safety and/or international compliance standards.

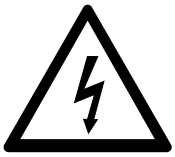
INSTALLATION NOTES

- When installing this apparatus either fix it into a standard 19” rack or place it on a secure level surface.
- If the unit is rack mounted, fit all rack screws. Rack shelves are recommended.
- Ensure that no strain is placed on any cables connected to this apparatus.
- Ensure that all such cables are not placed where they can be stepped on, pulled or tripped over.

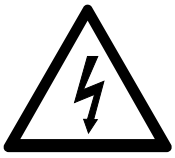
POWER SAFETY

- Do not defeat the safety purpose of the polarized or grounding type AC plug.
- Refer to the rating label on rear of the PS230 unit and always use a suitable mains cord.
- Connect only to an AC power source that contains a protective earthing (PE) conductor.
- Only connect units to single phase supplies with the neutral conductor at earth potential.
- Protect both the AC power cord to the power supply and the DC cable between the power supply and the EQ unit from being walked on or pinched.
- Unplug this device during lightning storms or when unused for long periods of time.

CAUTION!
This equipment must be Earthed. Refer to the manual for installation instructions. Disconnect all power sources before removing any panels. No user-serviceable parts inside. To be serviced only by qualified personnel.



WARNING!
Un-earthed metal parts may be present inside the enclosure. Check for hazardous voltages before touching. To reduce the risk of fire or electrical shock, **do not expose** this apparatus to rain or moisture.



WARNING!
Do not use a damaged or excessively worn IEC cable to connect this unit to AC power.

CE	The construction of the PS230 is in compliance with the standards and regulations of the European Community.

1.0 PS 230

1.1 Overview

The PS 230 is a 3-rail linear power supply capable of powering two LCPQ 4040 – MK2 units, housed in a robust enclosure.

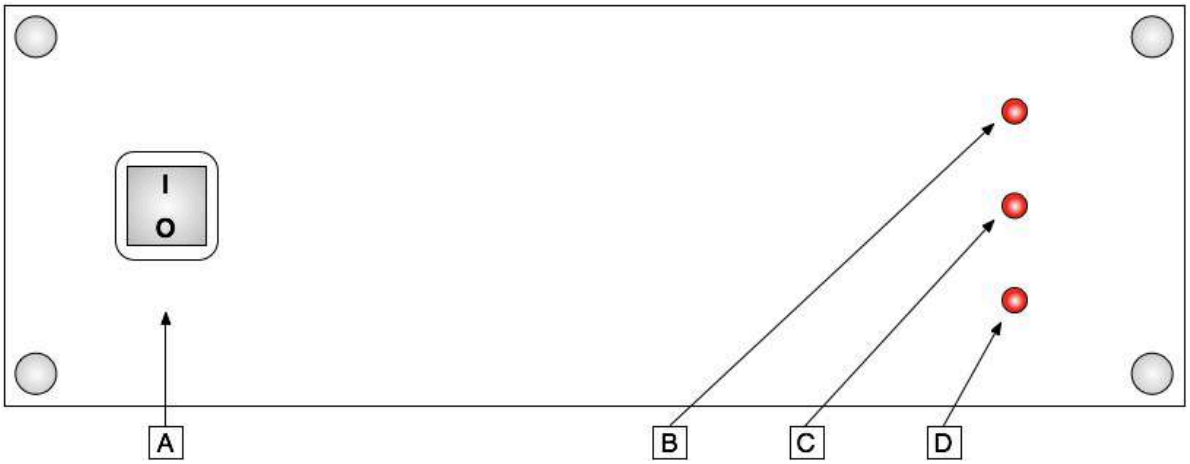
The unit provides ±28V DC for the audio circuit and +24V DC for the relay bypass system and the bypass indicator (LED). In order to cut the cost (and for the shake of simplicity), a lot of audio equipment use a common power rail for the audio circuit and for other functions such as relays, LEDs, lamps, etc. However, it is a better practice to use a dedicated power rail for all non-audio circuits. Therefore, the PS 230 has an additional +24V DC rail, which ensures that no unwanted noise (caused by the relays and the bypass indicator) is added to the audio signal.

The PS 230 can be switched for 115V AC or 230V AC operation and the mains fuse is accessible to the user from the rear side of the unit (in the IEC inlet).

1.2 Features

- High efficiency, low noise design
- Switchable 115V/ 230V AC
- Capable of powering two LCPQ 4040 – MK2 units
- Separate power rails for the audio signal and the relay bypass system
- LED indicators for each power rail at the front of the unit
- High quality 6-pin Neutrik connectors
- Hand-built and hand-wired
- 3-year limited warranty

1.3 Front Panel



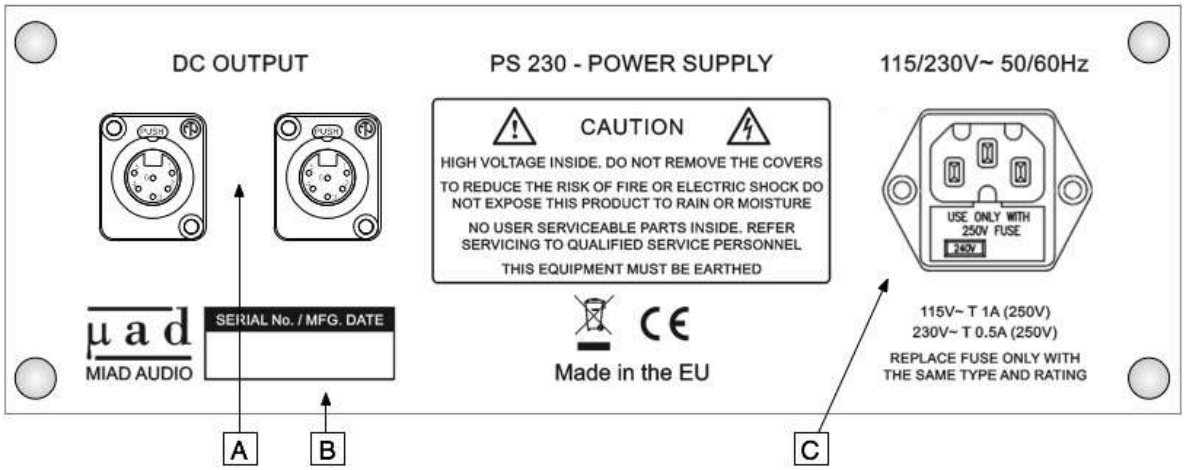
A. AC POWER SWITCH – This switch turns the unit ON and OFF. **Make sure you do not plug (or unplug) the 6-pin DC cable between the power supply and the EQ unit while the unit (PS 230) is ON**. **Hot-plugging (i.e connecting the DC cable while the unit is powered on) may damage your equipment.**

B. POWER INDICATION (-28V) – This LED allows visual confirmation of the presence of -28V.

C. POWER INDICATION (+28V) – This LED allows visual confirmation of the presence of +28V.

D. POWER INDICATION (+24V) – This LED allows visual confirmation of the presence of +24V.

1.4 Rear Panel



A. 6-PIN DC POWER SUPPLY OUTPUTS – This output allows interconnection of the LCPQ 4040 – MK2 unit. Up to two EQs can be connected to the power supply.

Pin out is as follows:

Pin 1= Chassis Ground
Pin 2= -28V (audio circuit)
Pin 3= +28V (audio circuit)
Pin 4= +24V (relay bypass system and bypass indicator)
Pin 5= 0V (reference for +24V)
Pin 6= 0V (reference for ±28V)

B. PRINT – Contains information regarding the serial number and the manufacturing date of the unit.

C. IEC MAINS INLET – Including the 115/230V AC switch and fuse. **Make sure that the AC voltage indicated on the IEC inlet is the same as the mains in your country and that you use the correct fuse**. An IEC mains power cord is supplied with every unit. For instructions on how to switch between 115VAC and 230VAC, please refer to **section 3.3**.

2.0 Specifications

2.1 PS 230 Technical Specifications

Input Voltage: 115V AC or 230V AC, 50/ 60Hz

Output Voltage: -28V DC, +28V DC, +24V DC

2.3 PS 230 Dimensions

Unit	Shipping
Width: 230mm	**Width:** 340mm
Depth: 170mm	**Depth:** 240mm
Height: 80mm	**Height:** 180mm
Weight: Unit approx. 2kg	**Weight:** approx. 3k

3.0 Appendix

3.1 Warranty Registration

To be eligible for the three (3) year limited warranty, the original purchaser must register the MIAD AUDIO product(s) within **thirty (30) days** of date of purchase. Register online at www.miadaudio.com/ProductRegistration

3.2 Product Warranty

During the first three (3) years from the date of the original purchase, this product is warranted to be free from defects in materials and workmanship under normal use, service and maintenance. This warranty is limited to failures during normal use, which are due to defects in material or workmanship. If any defects are found in the materials or workmanship, or if the product fails to function properly during the applicable warranty period, MIAD Audio, at its option, will repair or replace the product.

This warranty applies to the original purchaser and is subject to the following terms and conditions:

1. The warranty only applies to MIAD AUDIO products purchased directly from MIAD AUDIO or from authorized MIAD AUDIO dealers.

2. The warranty does not cover any of the following: damage caused by the user; spillages or moisture; neglect, abuse or misuse, including but not limited to the failure to use the MIAD AUDIO product for its normal purpose in accordance with the manufacturer's instructions for usage, failure to properly maintain the MIAD AUDIO product in accordance with the manufacturer's instructions, and/or the failure to use the MIAD AUDIO product in accordance with the manufacturer's specifications; use of product with incompatible or faulty equipment; unauthorized modifications; repairs conducted by unauthorized persons or service centers; the model and/or serial number being altered, removed or made illegible; damage resulting from improper packing or mishandling by a shipper; accidents; acts of God; Cosmetic defects, such as paint finish, and general wear and tear or any cause beyond the control of MIAD AUDIO

3. If the equipment requires warranty repair, return authorization must be obtained from MIAD AUDIO prior to shipment. Equipment should not be shipped until return authorization and proper shipping address is obtained from MIAD AUDIO.

4. Any products returned MIAD AUDIO for repair should be in their original packaging and they should include: (1) complete description of the problem; (2) name, address, phone number and e-mail address; (3) receipt of original purchase; (4) power supply and all accessories and cables.

5. MIAD AUDIO will not accept any warranty replacement without the original proof of purchase of the MIAD Audio, and without the registration of the MIAD AUDIO product. It is the original purchaser's responsibility to keep the original proof of purchase safe at all times, as MIAD AUDIO is not obliged to provide a replacement of the original proof of purchase, and to transfer that proof of purchase to any subsequent owners of the MIAD AUDIO product.

6. The purchaser is responsible for the shipping costs to and from MIAD AUDIO. MIAD AUDIO is not responsible for damage resulting from improper packing and/or mishandling by a shipper.

7. MIAD AUDIO reserves the right to inspect any products that may be the subject of any warranty claims before repair or replacement is carried out. Final determination of warranty coverage lies solely with MIAD AUDIO.

3.3 PS230 - 115/230 VAC Voltage Selector Instructions

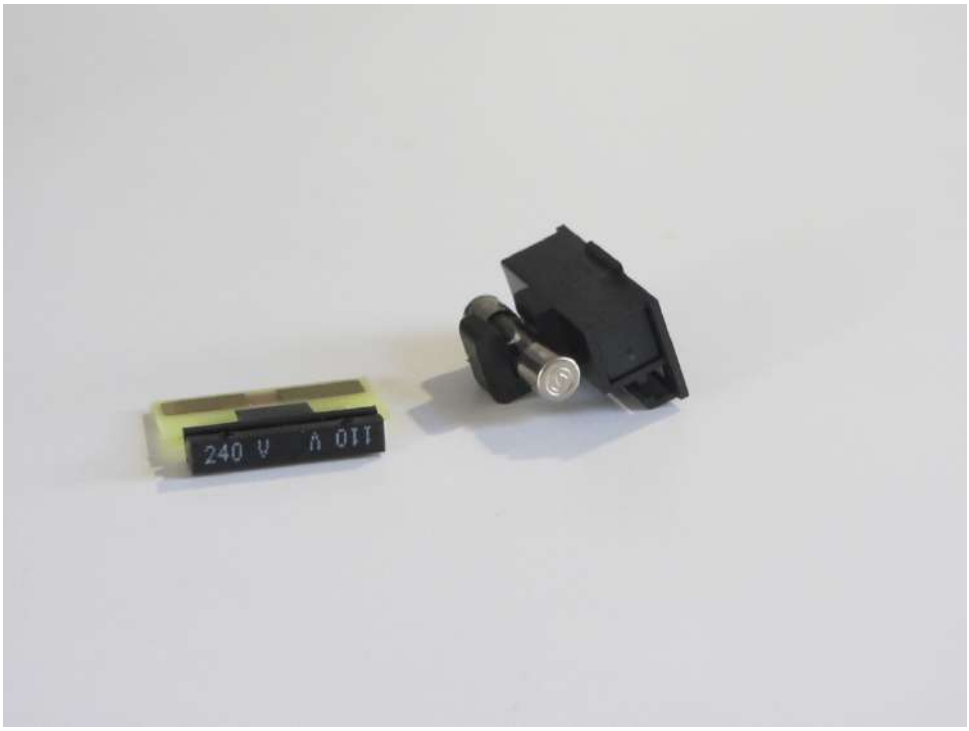
1. Remove the fuse drawer

2. Slide out the Voltage selector

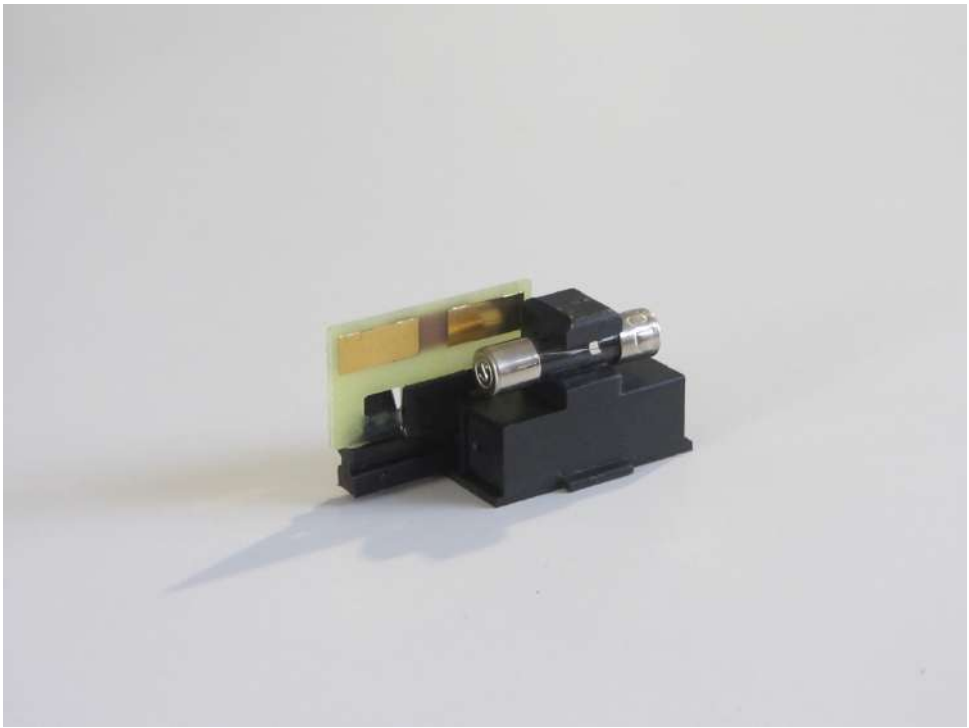
3. Remove the fuse

4. Insert the new fuse

Always make sure you use the correct fuse type and rating!



5. Insert the Voltage selector with the correct voltage orientation




240 V

6. Insert the fuse drawer back into the Power Inlet

7. Make sure the fuse drawer is fully inserted into the power inlet.