Safety Instructions

Prior to Installing your new Meitner Audio product please read the following safety instructions:

- Read and follow all instructions.
- Keep these instructions.
- Do not use or install product near any sources of water, rain and/or moisture.
- Clean using only a dry cloth or microfiber towel.
- Install only in accordance with the manufacturer's instructions.
- Refer all servicing to approved service personnel.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not install product outdoors or in direct sunlight.
- Leave at least 10cm or 4 inches around product to ensure proper ventilation.
- Do not place product near strong electrical or magnetic radiation/emmissions or near a power amplifier.
- In products that have OLED displays, to prevent display burnout, please engage screen saver function when leaving the product on all the time.

This Meitner product must be connected to a mains socket outlet with a protective earthing connection (grounding pin).

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO WATER OR MOISTURE.

EEC: This product has been designed and tested to comply with the limits set out in EN55013, EN55020 and EN 60065:2009 (electrical safety).

CE

Introduction

Welcome and congratulations on purchasing a Meitner Audio product.

We at Meitner Audio have strived to build and perfect the absolute best product using our award winning technology and decades of experience.

We are confident that our products will bring you musical enjoyment for many years to come.

This manual provides important information regarding the use, installation and care of your new Meitner Audio product.

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Warranty

Meitner Audio warrants the DS-EQ2 product against defects in material and workmanship under normal use and service for a period of time specified by the product's serial number from the date of first delivery to the owner. The warranty time period is 3 years. Warranty is limited to the original owner and is non-transferable.

Meitner Audio will pay for return shipping charges back to the owner when the product is sent to Meitner Audio within the first 90 days after purchase (US and Canada end-users only). Otherwise, owner will be responsible for all shipping charges to and from Meitner Audio.

For all warranty claims, a copy of the original invoice must accompany the product.

Opening the product or modifying it in any way by the owner, including but not limited to cryogenic treatment, will void any warranty.

Please contact Meitner Audio (support@meitner.com) for RMA number and shipping instructions before shipping any product to Meitner Audio.

Meitner Audio products are sold worldwide through authorized dealers with restricted territories. Meitner Audio product purchased from non-authorized dealers or from a dealer selling outside their authorized territory will automatically void product warranty.

DS-EQ2 Optical Equalizer

Following in the footsteps of the ground-breaking EMM Labs DS-EQ1 optical equalizer, Ed Meitner is proud to introduce the Meitner DS-EQ2. The DS-EQ2 integrates Meitner's proven optical equalization technology learned during the development of the DS-EQ1 into a single-ended, streamlined package accessible by a wider variety of end users while maintaining Meitner's high standard of quality.

The DS-EQ2 is designed with an obsessive desire to lower noise, lower distortion, and extract every bit of information from any DS Audio optical cartridge. The DS-EQ2's circuits are all Meitner designed in-house and optimized for short and direct audio paths. In Meitner's philosophy, the DS-EQ2 is a "less-is-more" component.

The DS-EQ2 utilizes a simplified chassis construction, high quality components and connectors, and a universal power supply hand-selected to fit Meitner's design criteria. The DS-EQ2 proudly holds the Meitner flag by offering exceptional performance in an attractive package, with value metrics that are hard to best.

Key Features:
- Proprietary equalization specifically designed for all DS Audio optical cartridges
- Ultra low distortion
- Custom designed single-ended discrete class A amplification
- Front panel electronically selectable DS Audio standard filter response or with added 2nd order 15Hz high pass filter
- Optimized short audio paths throughout
- Noiseless cartridge power function
- Power and filter touch buttons
- Works with all DS Audio cartridges

Features & Specifications

Stereo single ended (RCA) inputs and outputs.

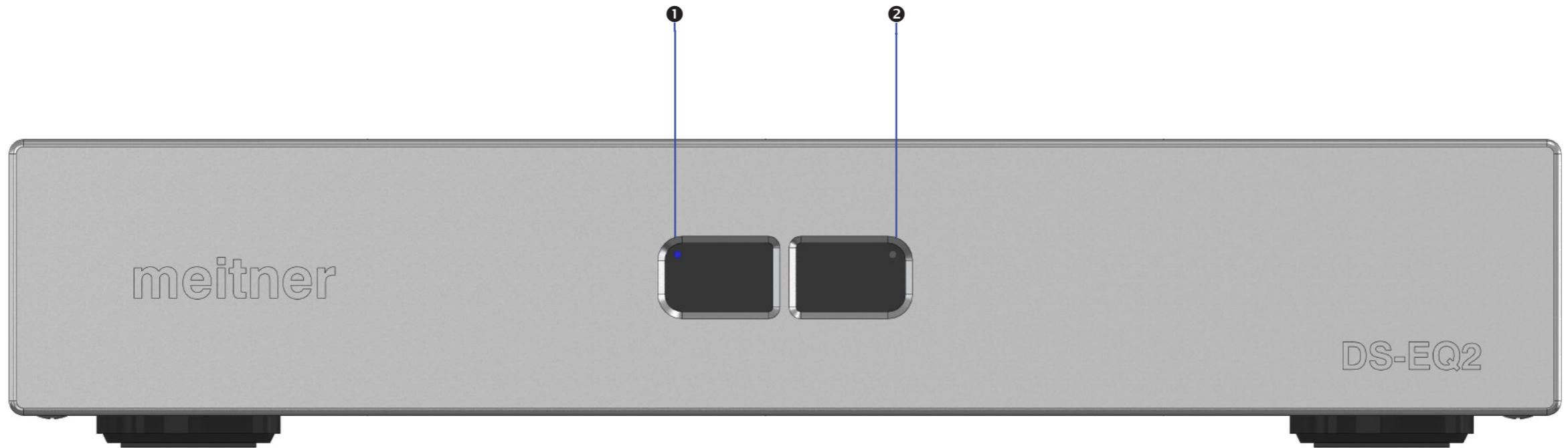The DS-EQ2's inputs are optimized for use exclusively with ONLY DS Audio Cartridges.

Output Impedance:
150Ω

Output Level:
0.5V nominal (~ -3.8dBu)

Power Supply:
Proprietary high-isolation resonant mode power supply for silent & eco-friendly operation
Universal 85V-260V 50/60Hz IEC Input Connector
Maximum 50W consumption

Dimensions W x D x H: 338 x 286 x 67 mm / 13.3 x 11.7 x 2.7 in
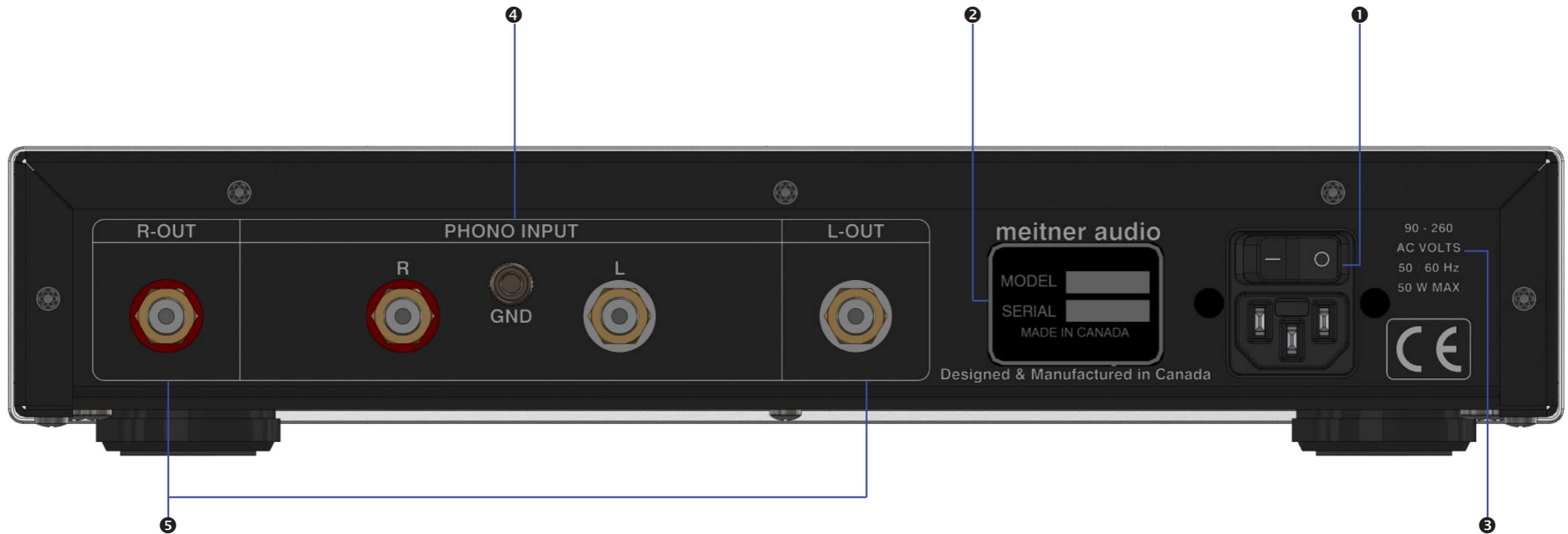Weight: 3.7kg / 8.2lbs

Front Panel & Functions

1. *Cartridge Power On/Off touch button:*
   Turns the power to the optical cartridge ON or OFF. Power to the cartridge is ON when the LED indicator is blue, OFF when the LED indicator is red. Default is ON.

2. *Filter Select touch button:*
   Toggles between standard DS Audio response filter or with added 2nd order 15Hz high pass filter. When the blue LED indicator is not lit, the standard DS Audio response filter active. When the blue LED indicator is lit, the additional 2nd order 15Hz high pass filter is active. Default is standard DS Audio response filter.

Rear Panel & Functions

1. Mains power switch and power inlet connector.
2. Product model and serial number indicator. Please note:
   Warranty void if model/serial number indicator is not attached to unit, missing,
   or damaged whereby serial number is obfuscated, covered or cannot be seen.
3. Product Universal Voltage Indicator (85V-260V).
4. Left (L) and Right (R) Analog Inputs, as well as the Grounding (GND) Terminal.
5. Left (L) and Right (R) Outputs.

Connections and Button Functions

Please connect provided power cord to the DS-EQ2, and attach to an appropriately grounded mains power socket. Attach left (L) and right (R) input audio channels (left and right RCA connectors) plus ground connector from DS Audio cartridge and turntable to the DS-EQ2. Attach left (L) and right (R) output audio channels (left and right RCA connectors) to your stereo pre-amplifier using the appropriate interconnects.

When turned on using the main power switch on the back of the DS-EQ2, the DS-EQ2 will go into full power on mode. Power will be delivered to the DS Audio cartridge (cartridge will be lit). The left front panel touch button's LED indicator will be blue, indicating power is being delivered to the DS Audio cartridge.

By default the standard DS Audio filter response will be active, and the right front panel touch button's blue LED indicator will not be lit.

You can now start playing records, and listening to music using any DS Audio cartridge and the Meitner DS-EQ2 Optical Equalizer.

1. Cartridge Power Touch Button (Front Panel Left Touch Button)
    The left front panel button turns the power to the optical cartridge on or off. When on, the left button's LED indicator be blue. Turn power off to the cartridge when not in use or when changing records. When off left button's LED indicator will be red, indicating the system is in standby and no power is being delivered to the cartridge. The DS Audio cartridge will also not be lit when cartridge power is not supplied to it.

2. Filter Touch Button (Front Panel Right Touch Button)
    The DS-EQ2 has 2 filter settings. The default is the standard DS Audio filter response, where the right button's blue LED indicator will not be lit. The second setting adds a 2nd order 15Hz high pass filter. When the additional filter is engaged the right button's blue LED indicator will be lit.