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Thank you for choosing EMM Labs...

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Safety Instructions

Prior to Installing your new EMM Labs 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.
- 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/emissions or near a power amplifier.

This EMM Labs 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

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Warranty

EMM Labs warrants the PRE 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 purchase. The warranty time period is 5 years. Warranty is limited to the original owner and is non-transferable.

EMM Labs agrees to pay return shipping charges back to the owner when the product is sent to EMM Labs 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 EMM Labs.

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 EMM Labs *(support@emmlabs.com)* for RMA number and shipping instructions before shipping any product to EMM Labs.

EMM Labs products are sold worldwide through authorized dealers with restricted territories. EMM Labs products purchased from non-authorized dealers or from a dealer selling outside his / her authorized territory will automatically void product warranty.

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Introduction

Ed Meitner's newly designed reference preamplifier is a recognition that the analog preamp is at the heart of every music system. This has motivated Ed to consistently push the boundaries of preamplifier design.

Built on the heritage of Ed's famous PA6i Meitner preamp, and our multi-award winning PRE2, the totally redesigned PRE is Ed's embodiment of this mission for perfection.

The culmination of Ed's many decades of research and development, the PRE is EMM Labs most sophisticated and transparent analog preamplifier to date.

The PRE STEREO PREAMPLIFIER features:

- 6 sets of stereo analog inputs
- 3 sets of stereo outputs
- 100% contactless, discrete, signal paths
- Clean Class-A power to drive cables and loads without degradation
- Proprietary software-based analog volume control
- Exclusive aerospace-grade composite laminate circuit boards
- Newly designed intuitive control system featuring programmable input naming, settings recall and many additional features
- Proprietary High-isolation resonant mode power supply for silent, green operation

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Features & Specifications

S/N ratio: 110dB (A-weighted)
THD: 1kHz <0.01%; 20kHz <0.01%
Frequency range: 0Hz-100kHz
Gain control range: Better than 70dB
Maximum input level: +18dBu (6.2V RMS)
System Gain: +6dB

Analog Inputs

- 3 Stereo sets of Balanced (XLR) - Input Impedance: 20kΩ
- 3 Stereo sets of Un-Balanced (RCA) - Input Impedance: 10kΩ

Analog Outputs

- 2 Stereo set of Balanced (XLR) - Output Impedance: 150Ω
- 1 Stereo set of Un-Balanced (RCA) - Output Impedance: 75Ω

System

- System control via serial RS-232
- Software upgradeable

Power Supply

- Power factor corrected
- Factory set to 100V or 115V or 230V, 50/60Hz
- Power consumption: max. 40W

Dimensions W x D x H: 438 x 400 x 161mm, Weight: 17.2kg

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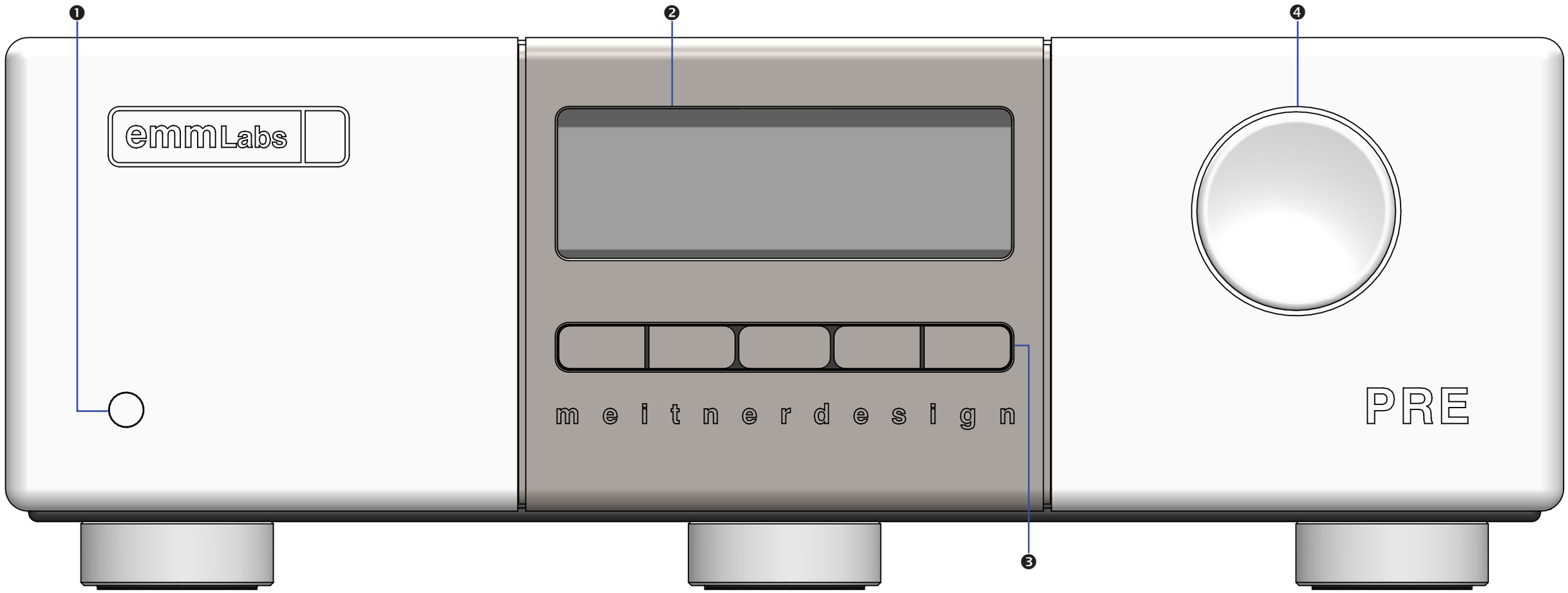
Front Panel & Functions



1. *Standby/Power-Save button*
   Toggles the operation between on and power-save mode. In power save mode the remote control and all front panel functions become inactive.
2. *Display*
3. *Button Bar*
   Context sensitive function buttons.
4. *Volume Control / Character Wheel*

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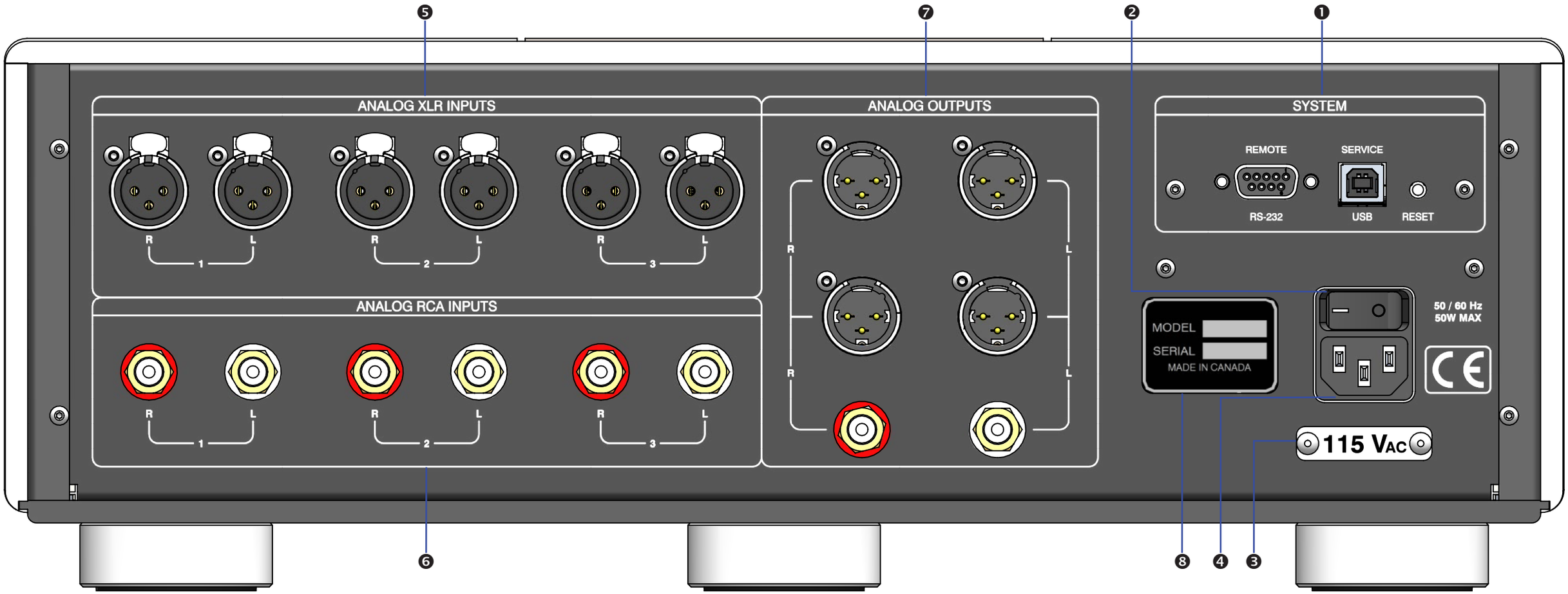
Rear Panel & Functions



1. *System*
    - Remote RS232: RS232 control port
    - USB: Software update port
    - RESET: Used to access the backup BIOS
2. *Main Power Switch*
3. *Product VOLTAGE indicator*

    Indicates working voltage of the PRE. Only use with indicated line voltage.
4. *Main Power Inlet connector*

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Rear Panel (cont'd)

5. *Analog XLR Inputs (3 Sets of Stereo Balanced Inputs)*
6. *Analog RCA Inputs (3 Sets Un-Balanced/Single Ended)*
7. *Analog Outputs*
    - 2 sets of Stereo Analog Outputs XLR (Balanced)
    - Stereo Analog Outputs RCA (Un-Balanced/Single Ended)
8. *Product model and serial number indicator*

    Warranty void if model/serial number indicator is not attached to unit, missing, or damaged whereby serial number cannot be seen.

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Main Screen and Button Functions

1. *Mute Button*

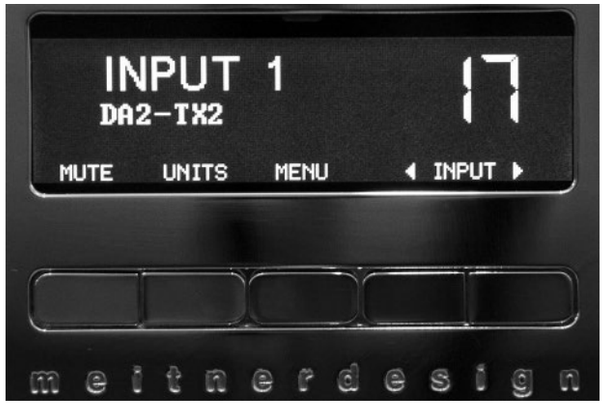
   Press the "MUTE" button to toggle the mute function.

Mute Function Off

Mute Function On

2. *Units Button*

   Press the "UNITS" button to change the way the volume is displayed. Volume can be displayed in step mode or decibel (dB) mode.



Step Volume Display

dB Volume Display

3. *Menu Button Functions*
   - Display Contrast and Brightness Settings
   - Volume Preset Settings
   - Input Naming
   - Remove Assignments
   - Reset All Settings

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Main Screen and Button Functions

4. *Input Toggle/Assignment* Buttons*
   Select inputs using the input toggle buttons. The system performs short fadeout/ fade-in operation on signals being switched.
   Please Note: The Mute is applied in the main (common) signal path; input selection does not affect the state of Mute.
   *For input assignment function see page 15.

Menu Button Functions

1. *Display Contrast and Brightness Settings*
   Use the right and left arrow buttons to adjust and set the contrast or brightness settings. Press save to save the settings.

2. *Volume Preset Settings*
   Save three volume presets per input. Select a volume setting using the volume knob or remote. Assign to one of the three preset buttons, A, B or C by pressing the indicated buttons. Recall the preset using the A, B. or C preset button on the remote.

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Menu Button Functions (cont'd)

3. *Input Naming*

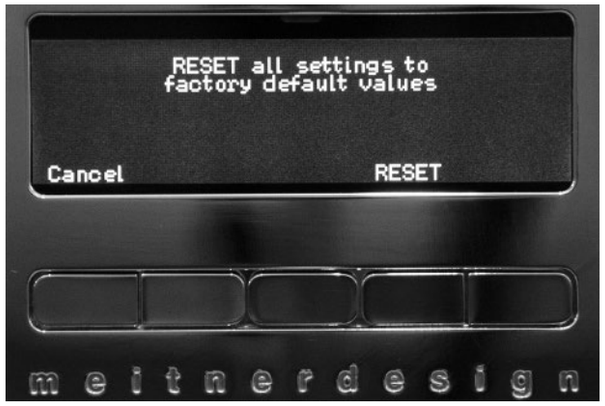
   Customize the name of each input. Use the arrow buttons "BkSP" (backspace) button and volume knob (to select letters, characters and numbers). Press the "Save" to save the name to the input.

4. *Remove Assignments*

   Removes inputs assigned to the left and right input toggle buttons.

5. *Reset All Settings*

   Pressing the "RESET" button resets the PRE to factory default settings. All saved volume presets and named inputs will be cleared.



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Volume & Signal Gain

The volume knob adjusts the signal gain from full attenuation (--dB or 0 step) to maximum gain at +6 dB or step 100. The maximum gain measured from any input to output is +6 dB. From the top of the control range, +6 dB or step 100, down to -33 dB or step 22, a single step lowers the gain by 0.5dB. After -33 dB or step 22, the changes are progressively coarser. -60 dB is step 1. The volume indicator on the main screen can be set to show the signal gain in decibels (dB) or volume steps.

Input Assignment

Press and hold the left or right input toggle buttons from the main display to assign them to an input. This allows quick access to your two most used inputs.

PRE Factory Defaults

- Selected input : Input 1 (XLR)
- Volume : -- dB or 0 step (all inputs)
- Volume Units : dB
- Mute : Off
- Display Contrast/Brightness : Mid-point
- Input Names: : Input 1-6 -> XLR1, XLR2, XLR3, RCA1, RCA2, RCA3

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Infrared Remote Control

VOL UNITS : This button toggles volume display units between steps and dB

DIM : This butons toggles through the 3 display states:

- DIM (dim the display)
- OFF (display off)
- FULL (back to the current default setting)

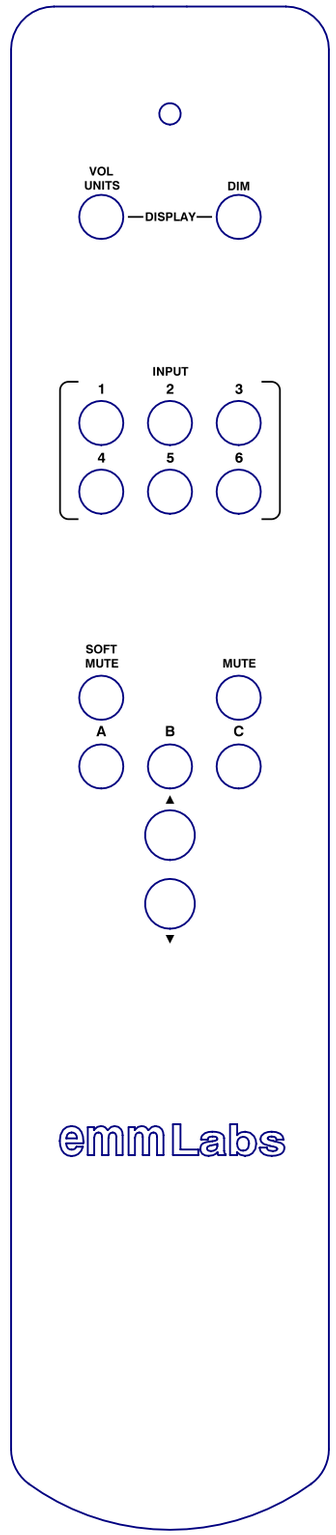
INPUT (1 to 6) : These buttons can be used to directly access any INPUT.

SOFT MUTE : Toggles soft mute function

MUTE : Toggles Mute function

A, B and C : A, B and C volume preset buttons.

VOLUME : Controls the volume/signal gain. Press the up arrow button to increase volume/gain. Press the down arrow button to decrease volume/gain



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