

AM104 CV MIXER

User Manual • Version 1.0 • March 2016



INTRODUCTION

Thank you, and congratulations on your choice of the AM104 module.

AM104 is a Block module for use with the Native Instruments' Reaktor Blocks Modular System.

An 8 Channel CV Mixer, optimized for use in conjunction with a DC Coupled Audio Interface to convert Reaktor Blocks Signals into Analog Control Voltages, allowing the interaction of Reaktor Blocks Modules with Hardware Synths and Modular Systems. The dBFS Peak Display allows for precise adjustment of the Output Levels, while the builtin Output Clipper keeps your DA Converters protected from Excessive Levels.

You must accept the license agreement to use this product.

Please see www.amazingmachines.com.br/software_eula.html for details.

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Windows

- Windows 7, Windows 8 or Windows 10 (latest Service Pack, 32/64-bit).
- Intel Core 2 Duo or AMD Athlon™ 64 X2, 4 GB RAM.

Mac

- Mac OS X 10.9, 10.10 or 10.11.1 (latest update, 64-bit only).
- Intel Core 2 Duo, 4 GB RAM.

General System Requirements

- Native Instruments' Reaktor 6.0.1 or Newer.

CHAPTER 2 - INSTALLATION GUIDE

To install and use AM104, simply extract the contents of the provided ".ZIP" archive to your preferred location on your Computer, using an extraction tool such as WinZip. Then, using the Reaktor Browser, load the "AM104 CV Mixer v1.0.ism" Block to an existing Ensemble.



Alternatively, the provided "AM104 CV Mixer v1.0.ens" file can be used to copy and paste AM104 between Ensembles.

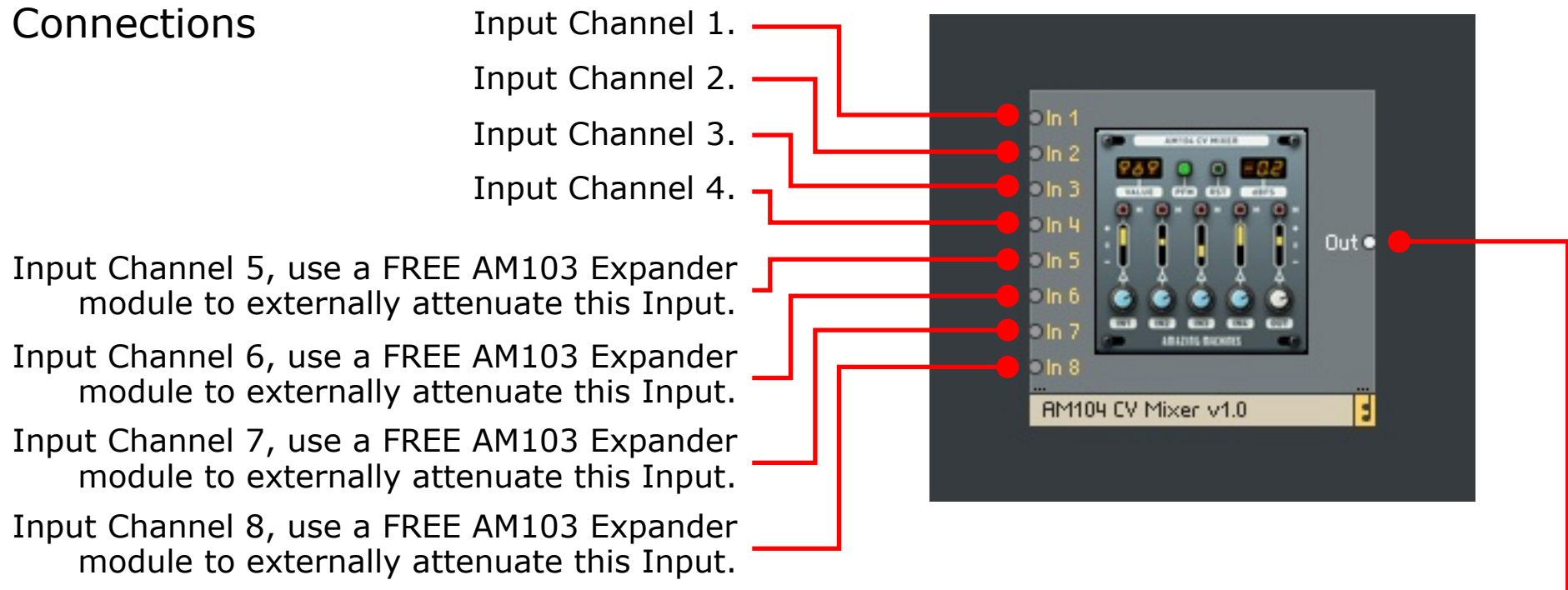
CHAPTER 3 - CONNECTIONS AND INTERFACE

AM104 is an 8 Channel CV Mixer, optimized for use in conjunction with a DC Coupled Audio Interface to convert Reaktor Blocks Signals into Analog Control Voltages, allowing the interaction of Reaktor Blocks Modules with Hardware Synths and Modular Systems.

The dBFS Peak Display allows for precise adjustment of the Output Levels, while the builtin Output Clipper keeps your DA Converters protected from Excessive Levels.

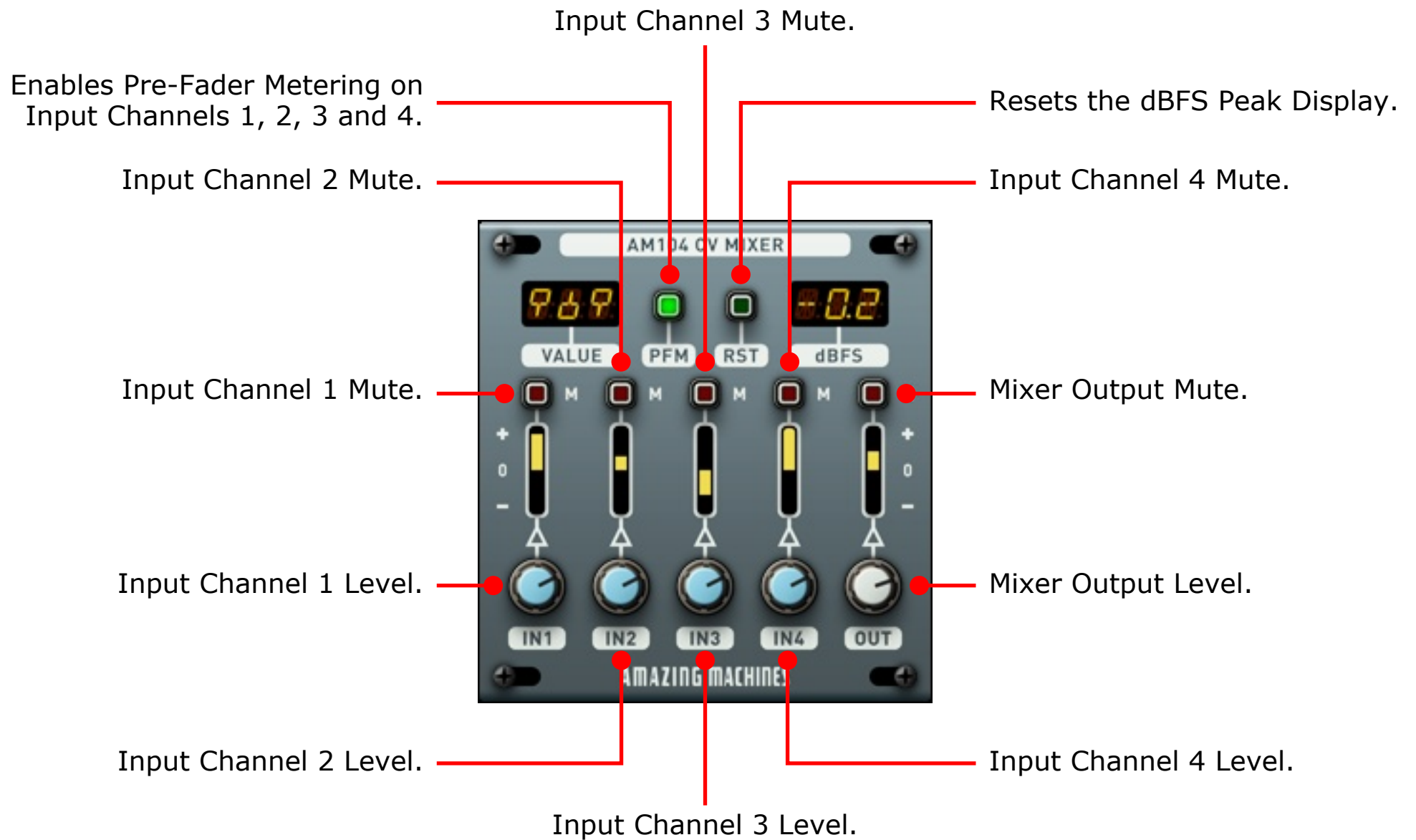
Inputs 5, 6, 7 and 8 are Unit Gain Inputs, they can be attenuated using a FREE AM103 Expander module.

Connections



Mixer Output, the sum of all channels is clipped at 0dBFS, use the dBFS Peak Display to measure the amount of clipping that is applied to the Output Signal. To make sure that the sum of all channels reaches Full Range without clipping, adjust the Input and Output Levels until the dBFS Peak Display hits 0dBFS.

Controls



Mouse Areas, Value Display and dBFS Peak Display

Unified Value Display, the Controls on the AM104 GUI report their current Status to this Display.

The areas marked in red are Mouse Areas, they activate the Value Display for the selected Control, everytime a Knob or Switch is changed the Value Display automatically updates the Status of the Control, but sometimes you may want to check the Status of a Control without changing its current position, the Mouse Areas serve this purpose.



dBFS Peak Display, similar to the Peak Display found on Audio Tracks in a DAW, this display provides a readout of Peaks on the AM104 Mixer Output, calculated in dBFS format. The dBFS Peak Display is patched Post Mixer Output Level and Pre Output Clipper, positive values are displayed in Red to indicate Clipping. To make sure that the sum of all channels reaches Full Range without clipping, adjust the Input and Output Levels until the dBFS Peak Display hits 0dBFS.

General Controls

To set a Knob or Switch back to it's Default Position, control+click the desired Knob or Switch and select "Set to Default" from the drop down menu. Double-clicking a Knob will also set it back to it's Default Position.

MIDI Learn

To set a Knob or Switch to respond to a specific MIDI Continuous Controller, control+click the desired Knob or Switch and select "MIDI & OSC Learn" from the drop down menu, then move the desired MIDI Controller to assign.

CHAPTER 4 - MODULE FLOW CHART

AM104 Flow Chart

