

AM107 VOLTAGE CONTROLLED AHDSR

User Manual • Version 1.0 • June 2017



INTRODUCTION

Thank you, and congratulations on your choice of the AM107 module.

AM107 is a Block module for use with the Native Instruments' Reaktor Blocks Modular System.

A 5 Stage Envelope Generator with Selectable Rate that goes up to a 100 seconds per Stage.

Sporting Analog and Digital Triggering Modes, Cycle Mode, Continuously Variable Envelope Curves and much more, AM107 makes the creation of sophisticated Envelope Curves a breeze.

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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 10.10, 10.11 or 10.12 (latest update).
- Intel Core 2 Duo, 4 GB RAM.

General System Requirements

- Native Instruments' Reaktor 6.1.1 or Newer.

CHAPTER 2 - INSTALLATION GUIDE

To install and use AM107, 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 "AM107 VC AHDSR v1.0.ism" Block to an existing Ensemble.



Alternatively, the provided "AM107 VC AHDSR v1.0.ens" file can be used to copy and paste AM107 between Ensembles.

CHAPTER 3 - CONNECTIONS AND INTERFACE

AM107 is a Voltage Controlled AHDSR, a 5 Stage Envelope Generator with Selectable Rate that goes up to a 100 seconds per Stage. Sporting Analog and Digital Triggering Modes, Cycle Mode, Continuously Variable Envelope Curves and much more, AM107 makes the creation of sophisticated Envelope Curves a breeze.

Connections

Gate Input. A positive Zero Crossing at this Input triggers the Envelope.

Trigger Input. A positive Zero Crossing at this Input triggers the Envelope.

Attack Stage CV Input.

Hold Stage CV Input.

Decay Stage CV Input.

Sustain Stage CV Input.

Release Stage CV Input.

Overall Envelope Curve CV Input.



Unipolar Output.

Bipolar Output.

End Of Attack Gate Output.

End Of Hold Gate Output.

End Of Decay Gate Output.

End Of Sustain Gate Output.

Controls

Sustain Level.

Decay Time.

End Of Stage Gate Time.

Sets the End Of Stage Gate Time of the A, H, D and S Stages, according to the Envelope Rate Settings.

Manual Gate. Triggers the Envelope when pressed.

Envelope Rate:

Slow Mode [SLW]

1 = 100 milliseconds

Medium Mode [MED]

1 = 10 milliseconds

Fast Mode [FST]

1 = 1 millisecond

Sets the Rate of the A, H, D and R Stages, as well as the Rate of the End Of Stage Gate Time.

Hold Time.

Attack Time.

Controls the amount of CV1 Modulation that is applied to the Attack Stage.

Controls the amount of CV2 Modulation that is applied to the Hold Stage.

Controls the amount of CV3 Modulation that is applied to the Decay Stage.

Envelope Triggering Mode:

Analog [ANA] = Envelope resets from it's current state

Digital [DIG] = Envelope resets from 0

Cycle [CYC] = Cycle through all Stages

Cycle with Gate Reset [CY.R] = Cycle through all Stages and Resets when the Envelope is triggered

Attack Stage Curve:

Positive [POS] - The Attack Stage Curve follows the Overall Envelope Curve

Negative [NEG] - The Attack Stage Stage Curve becomes the opposite of the Overall Envelope Curve

Velocity Sensitivity.

Release Time.

Overall Envelope Curve:

-100 = Exponential Curve [EXP]

0 (Default) = Linear Curve [LIN]

100 = Logarithmic Curve [LOG]

Controls the amount of CV6 Modulation that is applied to the Overall Envelope Curve.

Controls the amount of CV5 Modulation that is applied to the Release Stage.

Controls the amount of CV4 Modulation that is applied to the Sustain Stage.



Mouse Areas, Value Display and Modulation Indicators

Unified Value Display, the Controls on the AM107 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.



The white dots that circle around the A, H, D, S, R and CURVE knobs are Modulation Indicators, they move away from the knobs indicators depending on how the CV1, CV2, CV3, CV4, CV5 and CV6 Inputs are set.

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.

Fine-tuning a Knob Value

To Fine-tune a Knob Value, hold the Shift key then move the Knob to the desired Value.

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

AM107 Flow Chart



