

AUTOPAN MODULATOR OPERATION MANUAL



BY SYNTHESCIENCE



Autopan Modulator Operation Manual

First of all congratulations and thank you for choosing the Autopan Modulator by Synthescience. We hope that you'll find this a useful plugin for your processing needs. To get the best from its features, please take some time to read this manual as it provides vital information about the plugins performance.

The Synthescience Team.

1. Introduction

The Autopan Modulator is an effects processor designed to work around the stereo field of any given audio source. It can be programmed to make your tracks bounce from side to side of the audio field with several modulation options at your choice. If anyway you want to keep it simple, it will allow you to do so manually. It's not too much to say that this effect has its own character and can impart some very cool vibes to your sound. Take some time to explore it and you will see what were talking about.

Please notice that the Autopan Modulator is only intended to be used as a Stereo insert plugin, if however the plugin is inserted in a mono track, a tremolo type effect will be noticed.

It is of interest to know that in an experience conducted with a test signal of a stereo waveform in which one of the audio channels was inverted in relation to its counterpart, a total absence of output signal was noticed. This means that in a similar situation the same problem may arise and this is due to how the internal structure of the plugin deals with such phase related issues. On all other known situations the same won't happen, as in stereo material of the same length and phase on either Left and Right channels (Like in a dual mono signal) or regular stereo material with different audio content between Left and Right channels.

The Autopan Modulator is fully automatable and has the ability to store 32 presets. It ships with a few already pre programmed ones that will show what its all about and may be the starting point to your individual creations.

Installation procedure: Unzip the file, then copy the DLL's into your VstPlugins folder.

2. Front Panel controls



The controllers in the Autopan Modulator may be operated in four different ways:

Circular type controls – The grey knobs like Rate, Depth, Position and Mix.

Vertical type controls – Beat Division (active when Sync switch is on)

Toggle controls – On/Off switch, Sync switch, Wave Invert and Wave selector switch

Click controls (only active while clicked) – The effects nameplate which shows additional information about the plugin (like plugin version and credits).

Description of controls

On - Switches the effect on when highlighted in red or off when is not

Rate - Sets the modulation rate of the autopan effect from slow to fast (between 0.025 Hz to 5 Hz or 1.5 to 300 Bpm)

Led - Reacts or blinks accordingly to the set rate velocity

Sync switch – Syncs the beat of the Autopan Modulator to the host set tempo

Beat Division – When Sync switch is on the Speed knob is replaced by this control which allows for the Host tempo to be divided or multiplied in values ranging from T:32 (very slow) to TX16 (very fast).

Here's the values that can be selected:

(T stands for Time) T:32, 16, 8, 7, 6, 5, 4, 3, 2, 1.5, 1 ; TX1.5, 2, 3, 4, 5, 6, 7, 8, 16

Here's a picture of the Beat Division display, notice the Sync switch on.



Description of controls (continued)

Depth - Controls the Modulation depth or intensity of the autopan effect from 0 (none) to 10 (full modulation). When setting Depth at high values, a more balanced sound is obtained when the Position knob is set at center. If the Position knob is set close to left or right, some sort of odd modulations will be noticed, but this may be well interesting either.

Position - This controls the relative position of the processed sound in the sound field, values are L (full left) to R (full right), default value is between L and R. Notice that if Depth control is set to 0, this is the only way to control panning, making the user free to choose how panning occurs.

Mix - Adjusts the balance between the unprocessed and processed sound or in other words, the dry/wet balance, ranging from 0 (only the dry signal is heard) to 10 (the wet signal is at 100%). Notice that at middle or near middle position, with the effect on, a certain volume increase is noticed, this more of a phase issue related to the effects internal architecture and is part of the effects character itself. If somehow this becomes a problem in your mixing, then you can take the following suggestions, use a compressor to even out the peaks or simply decrease the volume slightly of the processed sound.

Wave selector - By clicking in the waveform box is possible to select 5 different modulation waveforms like: Sine, Triangular, Saw, Square and Random.

The first two, Sine and Triangular are recommended if you wish to obtain smooth modulations. The other three (Saw, Square and Random) are more pronounced waveforms and have a totally different effect in the overall effect sound.

Wave invert - Clicking this switch inverts the modulation waveform phase, therefore influencing the effects sound.

(About Box) - By clicking and holding the mouse arrow over the effect nameplate reveals further details of the effect. (like plugin version and credits).

3. Midi Controllers

(There is a total of 8 different midi controllers assigned to the Autopan Modulator plugin as shown in the below box.)

Autopan Modulator Midi Controller List

10 Effect on/off
11 Rate
12 Sync to Host sw
13 Beat Division
14 Autopan Depth
15 Position L/R
16 Mix
17 Waveform selector
18 Waveform invert switch

4. Credits and Acknowledgement

Manual by Synthescience

Graphics and Programming by Synthescience

This plugin uses software modules by Lance Putnam.

Synthescience products are developed with SynthEdit development system

By Jeff McClintock.

Vst Plugin Technology by Steinberg Media Technologies AG.

