

PULS was developed by **de la Mancha**

It is a dual pulse wave synth plug-in in VST format for Microsoft Windows based hosts.

This manual applies to PULS v1.1



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<http://www.delamancha.co.uk/>



INTRODUCTION

PULS is a monophonic pulse wave synthesizer with simple controls but complex sounds. From 2 pulse wave oscillators you can get chunky basses, scorching leads, retro chiptune, dusty lofi and oddball noises. PULS is a simplified and limited version of bassbomb, using the same core sound modules but without many of the options. Even so, what it lacks in knobs, it makes up for in sound.

It features custom pulse waveforms, unison, oscillator sync and ring modulation for some big n dirty sound potential, with a tempo-sync LFO for pulse width modulation (PWM) as well as detune and volume modulation.

V1.1 is updated to SynthEdit 1.1 which eliminates problems with multiple instances in multi-core CPUs

FEATURES

- Monophonic pulse wave synthesizer
- 2 oscillators with custom pulse waveforms
 - Adjustable Pulse width, modulated by LFO (per osc)
 - Unison per oscillator
- Oscillator sync and ring modulation between oscillators
- adjustable non-linear Release • Tempo-sync LFO with 4 waveforms with adjustable speed and depth
 - Pulse width modulation per oscillator
 - Detune and volume modulation
- Tempo-sync arpeggiator with 6 patterns
 - Arp can cover 1 to 4 octaves, synced to host (1/32 beats to 4 beats)
 - Adjustable note length (0-100%)
- 32 presets covering many styles and functions
- Updated to SynthEdit 1.1 which eliminates problems with multiple instances in multi-core CPUs

INSTALLATION

Installation is simple, just extract *PULS_1_1.dll* from the zip file and copy it into your VST directory. Install and load in your host program as you would any other VST instrument

As PULS will install some module files into a sub-directory with the dll, you need to make sure that Windows folder permission rights for your VST directory allows this, especially in Vista where it may default to block this process

Install of PULS v1.1 will not overwrite the original PULS install, they will both be available in your host VST list

To uninstall, simply delete the *PUL_1_1.dll* file and the associated *PULS_1_1* folder from your VST directory

CONTROLS

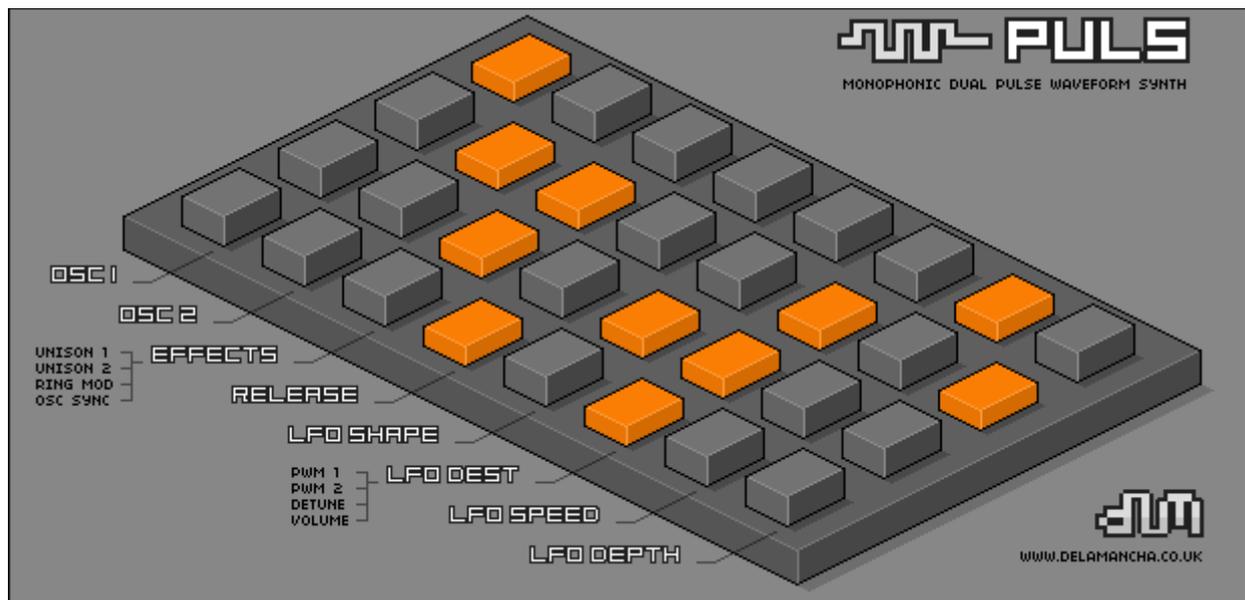
The controls are quite straightforward and labelled on the GUI, but here's a quick guide

The controls are arranged in 8 rows, with 4 buttons per row
Each row controls a different parameter of PULS

There are 2 types of control

- **1 of 4** – you may select only 1 of the 4 buttons in the row to choose one of the options
- **On/Off** – all 4 buttons perform an on/off function, any, all or none may be selected

Where the row has 1 of 4 buttons, the left hand side is the lowest value and the right hand side is the highest value.
Where the row has On/Off buttons, the 4 parameters corresponding to the 4 buttons are shown on the interface.



OSC 1 / OSC 2 – Selects the pulse width of the oscillator, left is a narrow pulse, right is a square wave

EFFECTS – (on/off) Turns on/off the effects, from L to R: *Unison Osc1, Unison Osc2, Ring Mod, Osc Sync*

RELEASE – Selects the length of release for the amp envelope, left is short, right is long

LFO SHAPE – Selects the shape of LFO, from L to R: *Sine, Soft Square, Peak, Saw*

LFO DEST – (on/off) Selects which parameters are modulated by the LFO, from L to R: *Pulse Width Osc1, Pulse Width Osc2, Detune Osc2, Volume* (select none to turn LFO off)

LFO SPEED – Selects how fast the LFO modulates, in sync with host tempo, from L to R: *¼ beat, ½ beat, 1 beat, 4 beats*

LFO DEPTH – Selects how much the LFO modulates the destination parameters, from L to R: *10%, 33%, 66%, 100%*

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CREDITS

Thanks to **Jeff McClintock** for creating SynthEdit and to the 3rd party SE module developers, without which this plug-in wouldn't exist.

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Links	
SynthEdit	http://www.synthedit.com/
Dave Haupt Modules	http://www.dehaupt.com/SynthEdit/semmodules.htm
Chris Kerry Modules	http://www.chriskerry.f9.co.uk/
K D Lynch	http://www.rubyhex.com/synthedit/
Scoofster Audio	http://scp.web.elte.hu/synthedit/modules.html

ABOUT THE DEVELOPER

de la Mancha lives, eats, dreams and breathes VST plugins, seeking to bring randomization and modulation to the masses. He is also a producer of odd-skool breakbeat, downtempo glitchy beats and other assorted bleeps and noises. You can find his music at www.papadodo.co.uk www.3x0.co.uk and www.mono-log.co.uk

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