

CZYNTHIA

ALGOMUSIC

*Thank you for purchasing CZynthia, the new virtual instrument from Algomusic!
We are confident that you will find incredible ways to use CZynthia in your own productions and spend countless hours creating new and exciting instrument, pad, lead, bass and synth presets.*

Of course, we have created quite a few to get you started. If you have any questions or requests, please do not hesitate to visit our support forum at:

<http://www.kvraudio.com>

We look forward to hearing from you.



Overview:

*Cynthia is a dual PD (Phase Distortion) virtual synthesizer.
Each synth is arranged in 3 basic blocks, not unlike those of a classic analog synthesizer:*

Pitch > Phase > AMP

Note: While this VSTi is inspired by the original Casio CZ series of synthesizers produced in the 1980's, it does not seek to emulate it.

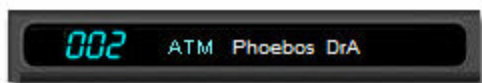
Features:

1. Two Phase Distortion Oscillator sections each offering two sets of 8 waveforms.
2. Three 8 stage envelopes each synth for control of pitch, phase and amplitude.
3. LFO (BPM synced or free running) offering 22 waveforms, rate and delay with pitch and phase destinations.
4. Pulsar module for algorithmic style pitch/phase modulation. (BPM synced)
5. Ring modulation, detune and transpose controls
- 6., Volume and panorama controls for stereo imaging and master volume.
7. Scale generator for force scaling of notes. 8 scales are provided with root key selection.
8. A powerful multi FX section offering 7 simultaneous stereo effects:

- EQ
- Rotor
- Metal
- Wah
- Delay
- Chorus
- Reverb

Installation:

Installing CZynthia is a breeze! Simply double click on the self-extracting Rar exe. When asked for a password, copy/paste your unique password from the email and extract or copy the files into the default folder that your audio host uses for VST instruments. However, it is best to keep CZynthia in its own folder for organizational purposes.



Preset view

At the top is a preset viewer that displays the preset number, category and name. When creating your own sounds, you can rename the preset by first selecting a category.

Just click on the category name, and scroll up or down with the mouse. Each category also changes the background color of the envelopes for easy identification. After selecting a category, simply click into the preset name and type into it to change it. Clicking outside the box confirms the name.



Phase Distortion Oscillator (PDO)

1. On/Off button for muting.
2. Waveform: Saw, Square, Pulse, Double-Sine, Saw-Pulse, Reso1, Reso2, Reso3.
3. Noise.
4. Load/Save of envelopes (*.ams).
5. Polarity (-/+) and Range (1/10V) switches.
6. ENS: Switches the ensemble effect on/off.

Global controls for oscillators:

1. Mono Mode: on/off
2. Velocity: on/off
3. Portamento rate.

4. Transpose controls (both synths):

- Octave (-1,0,1)
- Semitone



5. Detune controls (synth 2):

- +/-
- Octave (0-3)
- Semitone (0-11)
- Fine (0-99)



Three 8 Stage Envelopes (Pitch, Phase and Amp) for each synth:

1. Stages: select envelope structures ranging from 3 to 8 stages.
2. Sustain (SUS) point selection.
3. Polarity (-/+) and Range (1/10V) switches. (Pitch only)
4. Invert switch reverses the curve of the phase envelope. (Phase only)
5. Key follow with depth amount. (Phase only)
6. Slider for -/+ fine adjustment of Phase.
7. Load/save of envelope files.
8. Lin/Exp button - switches the response curve from linear to exponential. (Amp only)
9. 2 > 1 modulation dialog allows to feedback the output of synth 2 into the input of synth 1.

Using the Envelopes:

You shape the envelope by dragging the square nodes at the end of each segment. Holding the mouse down on a node displays the segment's current level on a scale of 0 - 10, the segment's current duration in milliseconds, and the current total envelope duration in milliseconds.

These values are updated when you drag the node.

Holding the ctrl-key while dragging a node gives finer control.

Drag the parameters at the bottom of the window up or down to increase or decrease them:

STAGES: Sets the number of envelope stages from 1 to 8.

SUS: Selects which stage, if any, will be sustained until key release. The selected sustain segment will be displayed with a dashed extension.

To maintain consistency, the number of stages can't be set less than the sustain or mod selections, and the sustain and mod selections can't be set higher than the number of stages.

Dragging horizontally anywhere outside of the nodes scrolls horizontally.

Shift-dragging horizontally anywhere outside of the nodes changes the horizontal zoom.

Double clicking anywhere outside of the nodes sets the view so that the entire envelope is visible.

Ctrl-clicking anywhere outside of the nodes resets the view to the default.

Load and Save: Once you have created an envelope, you can save it by clicking on the save button.



LFO (Low Frequency Oscillator):

This is a BPM synced/free running oscillator. You can switch between 22 waveforms by dragging the waveform graphic.

Delay - allows for automatic natural vibratos or filter sweeps that gradually come in.

Destination - phase / pitch synth 1, 2, A (all)

FM/VIB - toggles between Frequency Modulation or vibrato.

Pulsar (PSR) :

A rhythm generator with two pulse generators working in tandem.

To access the Pulsar, click on the arrow button which toggles between the LFO section and the Pulsar.

Each PSR provides a pulse width and a BPM rate control to set the rhythm, as well as a semitone and octave control to set the modulation depth.

Each PSR also has a wave select option by clicking on the wave graphic switch above the octave dialog.

Pitch/Phase - sets the PSRs output destination.

Scale generator:

This function forces notes played on your MIDI keyboard to be in a certain scale and can be quite interesting to play. Selection of the Root key and 8 scales are provided. Also, all kinds of arpeggio-like effects can be achieved by modulating pitch (with LFO, EG or PSR).

A nice example of this is preset 4 "Glider" in the factory bank.

Pitch Bend/Mod Wheel:

Next to the scale generator is the pitch bend wheel. It has independent parameters (in semitones) for pitch up and pitch down.

The Mod Wheel can be used to control certain parameters from the FX section, such as the 'Wah' center frequency, or the 'Rotor' speed.

Effects section:

Czynthia offers 7 types of stereo effects to further shape the sound.

Clicking into the button below the effect name selects the effect for viewing in the display area.

Selecting the actual effect name turns it on (highlighted) as well as off (no highlight).



EQ

A 3 band parametric EQ with Frequency (coarse/fine) and Gain controls.

100: Frequency (Hz) * 100. Example: 25 > 2500 Hz

10 : Frequency (Hz) * 10. Example: 5 > 50 Hz

Gain: -18 to +18 dB



Metal

A distortion unit with gain and clip controls, and choice of two types of distortion (limit/reflect).

A Low Pass Filter (LPF) provides for basic amp modeling.



Wah:

An auto wah effect.

LFO section with waveform select and BPM ratio.

AR envelope (triggered by the incoming sound).

Source: switches between LFO, EG1, EG2, or MW (Mod wheel).

Step: staircases the waveform into increment steps.

Slope: to 'round' the edges of modulation signals (for example pulse waves).

Depth: amount of modulation.

Frequency and Band: The main peak filter controls



Chorus:

This dual chorus module provides smooth chorusing or heavy flanging effects.

Spread: switch to 'on' for a 'wider' sound image.

Rate: Modulation speed.

Depth: Effect amount.

Time and Feedback controls (Delay1,2)



Rotor:

A Leslie speaker effect with 'valve' amp emulation.

Mode: chorale/tremolo switch

Spin: sets the mode switch 'time'

Tone: a simple high roll-off filter.

Drive: amp control ranging from clean to mild distortion.

Tone: a simple high roll-off filter.

Note: the chorale/tremolo switch can also be controlled by the Mod Wheel.



Reverb:

A simple yet effective reverb:

Gate: for gated reverb effects.

Size: room size

Width: room width

Damp: room's damping factor

Depth: effect amount



Delay:

A dual delay with 'gate' and 'cross' switches.

Parameters:

Types of control

1. **Dialog.** You will see small boxes with numeric or alpha characters inside them. Simply clicking into the box and moving the mouse up or down will increase or decrease the values.
2. **Paging Buttons.** Used in the LFO, Pulsar and FX section.
3. **On-Off Buttons.** buttons to activate or mute the selected module. This can be quite useful, such as turning off synth 1 while you are working on a sound for synth 2. You can also turn off effects if you want to use external plug-in effects.
4. **Graphic Envelopes.** Used for precise control of envelopes. See Envelope section.
5. **Knobs.** Used in the effect section. Clicking on a knob and moving the mouse in an upward or downward motion will turn the knobs.

Credits:

Cynthia VSTi Synth design by Dr. Ambient
Default bank (Sound Design) by Tim Conrardy, Dr. Ambient, BK and UGO.

Custom Modules by Dave Haupt
NoteQuantise module by Dan Worrall
Manual by Dave Haupt, Tim Conrardy and Dr. Ambient

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