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## 1. Description

**Zephyrus** is a **hybrid synthesizer** that combines an analog synthesis engine and soundfont oscillator to produce complex pads and background sounds.

### Features:

- l **SoundFont Oscillator:** The SFO Uses the raw samples in a SoundFont file (\*.SF2) as waveforms. Samples can be arranged into Banks, Patches, Key and Velocity zones.
- l **2 Digitally Controlled Oscillator** - DCO - with 3 selectable waveforms (Saw, Triangle, Pulse) have knobs to control the octave (4' 8' 16') , and interval.

- | **2 Digitally Controlled Filter** - DCF - A) with control over cutoff, contour amount, FM mod and emphasis. B) with control over ADSR envelope generator (Attack, Decay, Sustain, Release).
  - | **Mixer**, controlling **Oscillators A & B**, master volume, Filter mod and Tracking rate.
  - | **LFO (Low Frequency Oscillator)** with 2 selectable waveforms (Triangle & Pulse)
  - | **Loudness Contour** with control over ADSR (Attack, Decay, Sustain, Release).
  - | **Distortion Unit (Waveshaper)**: A wave distortion effect which maps input to output values using flexible spline-based graph. Distorts the input depending on a transfer function you draw by dragging the control points with your mouse.
  - | **Portamento (Glide) Control**: affects pitch transitions. A gliding effect that allows a sound to change pitch at a gradual rate, rather than abruptly, when a new key is pressed or MIDI note sent. When turned to the far left, there are no pitch transitions - new notes immediately play at their "correct" pitch. If turned to the right, the glide time increases - new notes are triggered at the pitch of the previous note, and then gradually glide to the pitch of the played note, quickly or slowly, depending on the setting of this knob.
  - | **Delay Effect** Built-in: with Modulation (Varies the delay time dynamically- 0 to 10V ) and Amount of Feedback controls.
  - | **On-screen MIDI keyboard** that can be played with the mouse, or keyboard (Q is Middle-C, Z two Octaves lower) The 'T' on the left of the keyboard sets Toggle Mode where each key stays held until you click it a second time.
  - | **64 internal presets** (Pre-programmed sounds)
  - | Possibility of turn the Synth into **Mono Mode** and **Retrigger switch**.
  - | **Hint Property**: Tool tip when the mouse is over a control. You can mouse over any of the controls anywhere in Zephyrus and this will display a short description of what that control does.
  - | One-panel Graphical User Interface
  - | **FULL MIDI Automation**: Complete **MIDI Continuous Controller**
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## 2. System Requirements

- | Operating System : Windows® 98SE/ME, Windows® 2000, Windows® XP, Windows® Vista, Windows® 7.
- | **Linux** Operating System, with the following requirements (Special Thanks to **Paul Davis**)
- | Processor: Pentium®, Celeron® or equivalent - 500 MHz or more (recommended).

- | RAM: 128 MB of memory (256 MB recommended)
  - | VST 2.0, 2.3 Host application like: FL Studio 9.xx, 8xx, Steinberg Cubase 4.xx,3.xx, Cubase SL 1.xx, 2.xx, Cubase SX 1.xx, 2.xx, 3.xx, Synapse Orion Pro 7.xx, Synapse Orion Platinum 6.xx 7.xx, Sony Acid Pro 7.xx, 6.xx, Magix Music Maker 14.xx, 15.xx, MakeMusic Finale 2010 v.15 - 2009 v.14, Mackie Tracktion 2.xx, Audio Mulch 1.0, Steinberg Nuendo 1.xx, 2.xx, 3.xx, Samplitude 11.xx 10.xx, Cakewalk's SONAR 8 Producer Edition and Studio Edition, SONAR Home Studio 7, Bram Bos Tunafish 1.xx, M-Audio Ableton Live 7.xx, 6.xx, M-Audio Evolution Sound Studio II Standard & Pro 2.xx, PowerTracks Pro Audio, Making Waves Audio & Studio 5.xx and more ...
  - | Graphics (minimum): 16-bit 800x600
  - | Work with other hosts, as a **DirectX plug-in** using the **FXpansion Vst-Dx V3/4 adapter or running ToneWise's DirectiXer 2**. Is the easiest way to gain access to the hundreds of VST plug-ins from your DirectX audio application. Compatible with the Cakewalk Audio line (v6 and higher), FASoft N-Track, Sound Forge and Vegas (as an Aux effect only, in Vegas), Acon Digital Media Acoustica 4.0 (Effects only) Syntrillium Cool Edit Pro, and many more.
  - | **Via FXpansion's VST-to-RTAS Adapter:** M-Audio Digidesign Pro Tools M-Powered Recording Software.
  - | **Via FXpansion's VST to AudioUnit Adapter for Mac OS X:** A highly-integrated plug-in wrapper that allows users of AudioUnit-compatible applications to integrate VST plug-ins and instruments seamlessly in to their working environment.
  - | Other Components: PC configured according to the specifications of the host application
  - | An ASIO® soundcard is recommended for low latency real-time play.
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### 3. Installing and Uninstalling VST Plug-in

To install VST plug-in, follow these steps:

- | The file must be in a directory where the VST host is looking for VST plug-ins.
- | Unzip the file.
- | **Put the Syntheway Zephyrus.dll file into VST Plug-ins Folder of your host application.**

**To uninstall** simply remove the **Syntheway Zephyrus.dll** file of your VST Plug-ins folder.

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#### 4. MIDI Implementation Chart for Syntheway Zephyrus:

The following **MIDI Continuous Controllers** (MIDI CC) messages are recognized and affect the described parameters:

Controller Number	Controller Name
CC# 01 - FILTER B - RESONANCE (Modulation Wheel)	
CC# 03 - FILTER B - CUTOFF	
CC# 09 - FILTER B - CONTOUR	
CC# 14 - FILTER B - FM MOD	
CC# 05 - GLIDE - Portamento Time -	
CC# 07 - MASTER VOLUME ANALOG OSC.	
CC# 20 - MASTER VOLUME SOUNDFONT OSC.	
CC# 71 - LOUDNESS CONTOUR - DECAY / REL	
CC# 73 - LOUDNESS CONTOUR - ATTACK	
CC# 74 - LOUDNESS CONTOUR - SUSTAIN	
CC# 84 - FILTER A - ATTACK	
CC# 85 - FILTER A - DECAY / REL	
CC# 86 - FILTER A - SUSTAIN	
CC# 87 - OSCILLATOR A - Pulse Width	
CC# 88 - OSCILLATOR A - Phase Mod	
CC# 89 - OSCILLATOR A - PM Depth	
CC# 102 - OSCILLATOR B - Pulse Width	
CC# 103 - OSCILLATOR B - Phase Mod	
CC# 104 - OSCILLATOR B - PM Depth	
CC# 105 - LFO RATE	
CC# 111 - DELAY FEEDBACK	
CC# 110 - DELAY MODULATION	
CC# 111 - DELAY FEEDBACK	

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## 5. Version History

- | **v1.1:**
  - **Updated built-in sound bank to 64 patches (32 new predefined sounds).**
  - **Redesigned GUI.**
  - **Some bug-fixes and smaller improvements.**
- | **v1.0: First release.**
- | v.0.9: Beta (Beta Tester version only)

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## 6. Technical Support and Contact

Free Technical Support to Registered Users:

Please take a look at the [FAQ \(Frequently Asked Questions\)](#) before you contact customer support. If you have any problems with instruments and effects, you can contact us by [e-mail](#). Support requests are answered as quickly as possible, if you send the following information:

- | Syntheway Product
- | Host Application (Name & Version number)
- | A very detailed description of the problem

Your inquiry will be answered in the order in which it is received. Due to the volume of e-mail, sometimes, these may not be able to respond immediately.

### Contact Information

<b>General Information</b>	<b><a href="mailto:info@syntheway.net">info@syntheway.net</a></b>
<b>Contact</b>	<b><a href="mailto:contact@syntheway.net">contact@syntheway.net</a></b>
<b>Sales</b>	<b><a href="mailto:sales@syntheway.net">sales@syntheway.net</a></b>

<b>Customer Support</b>	<b><u><a href="mailto:support@syntheway.net">support@syntheway.net</a></u></b>
<b>Legal Department</b>	<b><u><a href="mailto:legal@syntheway.net">legal@syntheway.net</a></u></b>
<b>PR Contact</b>	<b><u><a href="mailto:pressrelease@syntheway.net">pressrelease@syntheway.net</a></u></b>
<b>Webmaster</b>	<b><u><a href="mailto:webmaster@syntheway.net">webmaster@syntheway.net</a></u></b>

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## **7. FAQ (Frequently Asked Questions)**

Here you will find answers to the most frequently asked questions: please take a look at the FAQ webpage:

**<http://faq.syntheway.net>**

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## **8. Update and Upgrade Policy:**

As a general policy, Updates between minor Syntheway product versions are free. Upgrades between major Syntheway product versions are paid.

### **Updates:**

An update is an interim release that fixes bugs, enhances usability, updates data, or adds a new feature to an existing version. For example, you would update Magnus Choir v1.00 to v1.1.

They get distributed electronically after their release. If you have already registered, and you will not get the email with "link to download update" within a reasonable time, send an email from the email account that was used with your registration. If your email address changes, please notify us [support@syntheway.net](mailto:support@syntheway.net) so that we can update our database.

### **Upgrades:**

Upgrades are changes in the major version number of the product (containing major new functionality, improves performance, enhances usability). When we release a major new release, we change the first number in the version number. So you switch to a higher version of a program within the same VSTi/VST product family. For example, you would upgrade Syntheway Zephyrus v1.00 to v2.00. Upgrades are free when... you purchase Syntheway product and we introduce a major new release (e.g. moving from Realistic Virtual Piano v1.xx to v2.0) within 60 days of your purchase date. Any release containing major new functionality, an upgrade fee will probably be chargeable.

Specially discounted upgrade pricing is available to registered users of the immediately prior version of Syntheway Product. That is, if you are a registered user of v1.xx, you are eligible to upgrade to v2.0 at the special discounted upgrade price.

### **How often are updates and upgrades released?**

We create product updates and upgrades when:

- ┆ New features or functionality have been added.
- ┆ Bugs and problems have been corrected.
- ┆ New features have been added or supported.
- ┆ New optimizations have been integrated into the VST architecture.

Check out for updates/upgrades to this software at:

**<http://download.syntheway.net>**

Notes:

- n Make sure your email account can accept emails coming from us (domain: @syntheway.net). Also take a look to your SPAM folder.
- n Personal details are kept private and are never spammed. For Updates Syntheway uses "BCC" to protect your email address privacy.

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## **9. License:**

### **Syntheway Zephyrus VSTi - License Agreement**

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## **10. Evaluation & Registration**

The code for the licensed and evaluation versions of this program are identical. The DEMO VERSION is full

functional. You can do anything you can do with the full version, you can even save your presets. Also in the demo are some presets included to demonstrate the instruments capabilities. The only restrictions are, that the demo emits a decent noise about every 10 seconds. The full version does not have nagging sounds.

In developing software we have embraced "try before you buy" shareware concept that allows you to evaluate a product in action and decide on real performance prior to taking out your wallet. As additional benefits there are free upgrade policy (within version numbers -e.g. 2.0 to 2.xx) and technical support via e-mail.

The full version is available to purchase, as downloadable software, and you can download the registered version when your payment is received. You will receive an email containing registered download link and password protection. For details on ordering through the Web, please visit us at:

**<http://shop.syntheway.net>**

By buying our software you automatically support our development for upcoming products.

### **How to purchase with PayPal:**

#### **n Use the convenient PayPal® Shopping Cart on the website.**

Orders are processed using the secure PayPal® shopping cart system. You will see an "Add to Cart" button on each individual VST Instrument / Effect. Click on the button for each product you wish to order, and follow the simple directions to complete your transaction.

You can purchase online using credit card, debit card, PayPal funds, bank funds or e-check (No additional cost). For your protection, PayPal verify credit card information. The process normally takes about 30 seconds. When your information has been successfully updated, you will see a confirmation message and receive an email with Payment Details and Transaction ID number.

After your purchase, when payment is received, **registration is delivered by email usually less than 24 hours**. You will receive an email containing registered download link and password protection. If you don't receive the "link to download" within 24 hours, it may be due to a spam filter. Check your filters and "Junk Email" folder, or [contact us](#) if you are still having trouble. We apologize for any inconvenience caused by these delays.

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**Please try the demo before purchasing the full version to make sure this product runs fine on your system. Syntheway has an explicit policy of no refunds, so we cannot accept returns or provide refunds after registered program is downloaded.**

:::: Safe Shopping: The latest SSL 128 bits technology for the highest security ::::

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## **11. Plug-in Credits**

Concept and Programming by Daniel Alberto Laiseca.

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## 12. Acknowledgements:



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