

XILS 201



User Manual

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1. Introduction

Thank you for choosing the **XILS 201!**

The **XILS 201** is a virtual effect based on the architecture of one of the coolest vintage **vocoder** out there.

One of the best vocoder ever built, the **XILS 201** can bring you back some years ago when sound was so important for the great artists who began the electronic music as Herbie Hancock, Kraftwerk and a lot of others.

We at **XILS-lab** do our best to create authentic recreations of the great synthesizers we emulate and then take it even further. What can be done with today's computers allows us to take these emulations beyond what was feasible when these products were first created. Our goal is to be true to the original in sound and modulation routings and then add features that were just not previously possible.

If you have not yet developed your skills as a sound designer, we have included a lot of presets. So you can fuel your synthesizer or robot voices dreams as soon as you load the **XILS 201** into your DAW.

Please enjoy this very powerful sound creation tool. We love what we do and we want you to get the most enjoyment you possibly can from our labors. We want to hear from you.

So "like" us on Facebook <http://www.facebook.com/XILSLabs> and join in the conversation

2. Features

The **XILS 201** offers:

- A finely tweaked and emulated 20 bands filter vocoder.
- Per band by pass, addition and bridging possibilities.
- One internal sound carrier based on one oscillator and one noise generator.
- Four effects: Reverb, Delay, Chorus, Phaser with their own input routing.
- Automatic input Gain Control.
- Analog like pitch tracker.
- External carrier input for feeding the vocoder with your own sounds or synthesizer.
- Access to a lot of parameters which were not accessible in the hardware version.
- All parameters are MIDI controllable.

The **XILS 201** is available in the following formats:

- **Mac OSX 10.8 and later:** VST, Audio Unit, AAX
- **Windows 10, 8, 7:** VST, AAX



Minimum system requirements: 1 Gigabyte of RAM and a 2 GHz processor.

The **XILS 201** is a plug-in and is not available as a standalone application

Notice: The screen resolution must be set at least to 1024 pixels width.

3. Installation

XILS-lab provides two protection format: eLicense or iLok. This first section describes the process for authorization

3.1. eLicenser drivers

The **XILS 201** uses an USB-eLicenser dongle (Steinberg Key). You must have this dongle connected to a USB port on your computer to make the XILS 201 working.

Important : Please take care of your dongle: you need it to run the XILS 201 and it carries your license!

Please Note: Even if you have already installed the eLicenser drivers for a previous product, please install the latest version of the eLicenser License Control.

To download the latest eLicenser Control Center (eLC), please go to:

http://www.elicenser.net/en/latest_downloads.html

You need a XILS 201 Activation Code to load your license onto the dongle:

First, plug your dongle into a USB port of your computer. Then launch the License Control Center. Select **Enter authorization code**, enter your **Activation Code** in the reserved field, and press Next.

Wait for the license to be downloaded and then check to see if the license is correctly loaded on the dongle in the main section of the Licenser Control Center.

3.2. iLok drivers

With the iLok protection, you need to plug an iLok USB key into your computer or use the so-called "soft-location" for authorizing your computer.

After downloading and installing the latest iLok License Manager, please launch it, login or create a free account.

Select "License->Redeem Activation Code" and submit your iLok code. Drag and drop the created license onto a destination icon (either your computer or an iLok device)

To download the latest PACE drivers, please go to:

<https://ilok.com/#!license-manager>

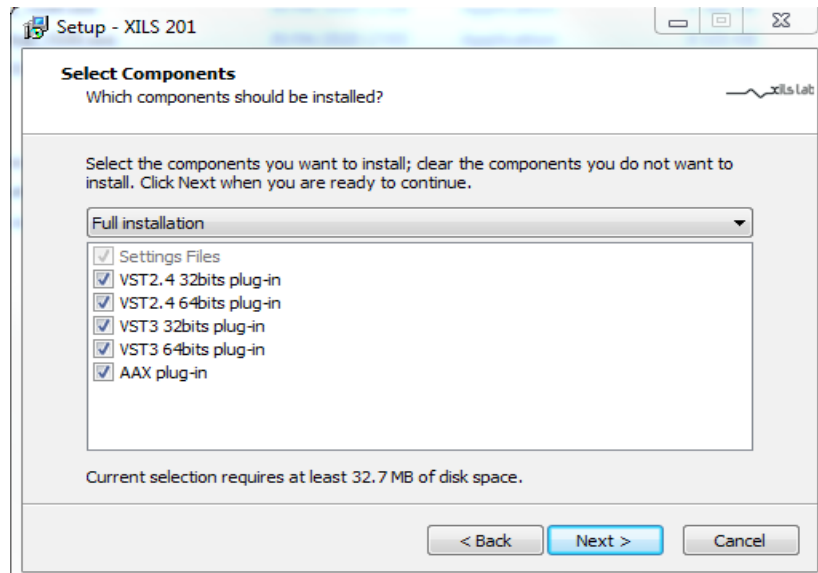
3.3. Windows (Windows 7,8,10)

To install the XILS 201 on Windows, launch the XILS 201 installer file.

Please download the latest version from the XILS-lab website.

<https://www.xils-lab.com/products/XILS-201-p-165/download.html>

Once you have accepted the license agreement, you will be asked to select the components to be installed :



You can choose the format to be installed between AAX, VST3 and VST2.4. Then you will be asked to select various install directories.

A destination directory is provided as a default. Presets and various files, like this manual, used by the XILS 201 will be stored in this directory. Please note that this location is different from the VST install directories, where your DAW will be looking for the plug-ins.

For the VST directories, make sure that the path for the 32 bits plug-in differs than for the 64 bits plug-in (as the default path does), otherwise one would be overwritten by the other.

Important notice : For the preset folder, be sure to use a read/write enable and owned by the user folder (do not use "c:/program files" for instance or any sub-folder of a system folder). Otherwise you will have to run your music application with "administrator rights".

3.4. Mac (OSX 10.8 and later)

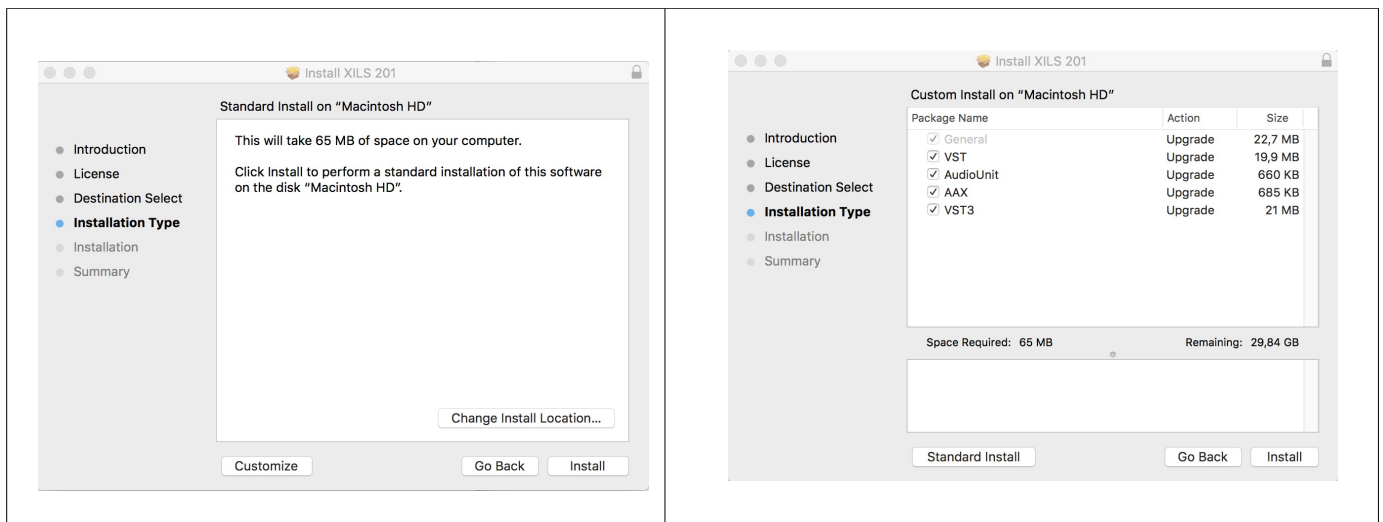
To install the XILS 201 on a computer equipped with Mac OSX 10.8 or later, download the latest version of either the iLok or eLicensor versions from the XILS-lab website to make sure you have the latest version of the software.

<https://www.xils-lab.com/products/XILS-201-p-165/download.html>

Then launch the install program, XILS 201.pkg, and follow the instructions.

Notice: the install program will ask you for your system password. In case OSX refuses to launch the installer for security reason, open the system preferences and select Security&Privacy. Then click on the "Open Anyway" button at the right of the XILS 201 installer warning.

Just after selecting the drive where the XILS 201 must be installed, choose which components you want to be copied by clicking on "customize" and selecting or unselecting them :



The various files of the XILS 201 will be copied into the following directories:

Library/Application Support/XILS-lab/XILS 201
Library/Application Support/Avid/Audio/Plug-Ins
Library/Audio/Plug-Ins/Components
Library/Audio/Plug-Ins/VST
Library/Audio/Plug-Ins/VST3
Library/Application Support/Documentation/XILS-lab/XILS 201

And for the user preset and various option :

..users/username/Library/Preferences/XILS-lab/XILS 201

4. What is a Vocoder ?

A Vocoder is an effect which uses two signals to produce one output signal.

The first signal is called the modulator. Usually vocals are used as the modulator, but it can also be drums, percussion, or any other musical signal. The second signal, called the carrier signal, is usually a synthesizer signal, like a sawtooth chord, white noise but can also be any other audio rich material as bells, wind, rain, etc.

A bank of bandpass filters splits the modulator into several frequency bands. For a good result and an understandable synthetic voice, 20 bands were used in the legacy Sennheiser VSM 201 model. The level of each band output is constantly measured.

The same filter bank also splits the carrier signal. The measured level of each modulator filter band is then applied to each corresponding carrier filter band. This way, the spectrum of the carrier is modulated by the spectrum of the modulator. The output of all the carrier filters are then mixed together, producing the output of the vocoder.

The quality of a vocoder is depending on different components :

- The filter bank : it must provide a good analysis spectrum, for which every band is equally measured (without any digital artefacts)
- The band level analysis : the way each band level is measured and analysed gives the key of a good vocoder and how the result is understandable.
- The synthesis band modulation : the way each synthesis band is modulated is also part of the vocoder sound, its quality, its smoothness.
- Synthesizer carrier : Without a good synthesizer feeding the vocoder filters, the result wouldn't be as good as expected.

All these modules would lack to reproduce the human voice without a voice detector. This module is separating the voice part (like the vowels, called "voiced") and the sibilants (like "s", "sh", called "unvoiced"), allowing the synthesizer modules to be adapted for using either noise or pitched oscillators.

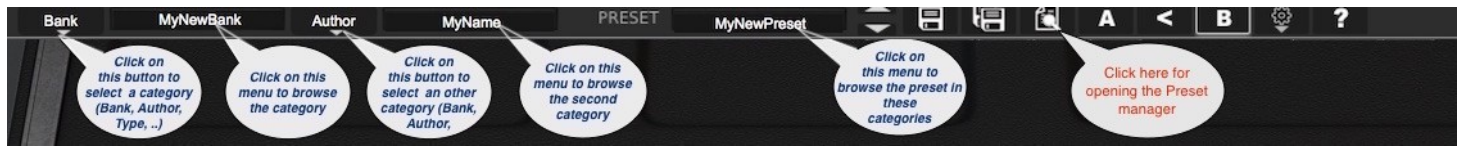
When the pitched oscillator is used, it could be interesting that it follows the voice pitch. For this we must use a pitch tracker.

Mixing up all these modules, we are now in front of a impressive effect with a lot of sound possibilities:

- Speech or singing from extremely low to very high pitch from a simple spoken text, also with unusual vibrato or alienate speech melody.
- Hoarse whisper made from singing or normal speech.
- Articulating monophonic or polyphonic instruments.
- Changing one human voice into another.
- Multivoice polyphonic singing of a text spoken by one person.
- Articulation of natural noise (whispering wind, speaking motor, etc ...)
- Multifilter effect to select a frequency response.

5. Using the XILS 201

5.1. Using the XILS 201 tools bar



Note: The toolbar at the top of the interface allows you to load or save presets, make a comparison between settings A and B, or modify the options. These functions are described in detail later in this manual.

Click on the **PRESET** menu to show the available presets in the current sorted group. Please note that selecting a new preset without saving your current settings will erase any changes you have made to those settings.

Click on the **sort arrow** button to display the current sorted group and to choose the preset within it.

You can sort presets by: **Author, Feeling, Type, Style, Bank or Projects.**

Please note that the **XILS 201** will display presets by instruments categories (Type) by default.

Click on the sorting label over the sorted group name, to sort your preset according to your preferences.

Please note that the XILS 201's powerful Preset management is fully detailed further in this manual.

5.2. Adjusting the XILS 201 parameters

On the **XILS 201**, the sound parameters are controlled using knobs or switches

To adjust the parameters of the **XILS 201** which are controlled by knobs, click inside it and move the mouse up or right to increase the value, down or left to decrease it.

If you right-click on a parameter, or if you hold shift while clicking, you can adjust the parameter with fine precision (the ? button of the toolbar displays a panel summarizing these following shortcuts).

Keyboard shortcuts

In addition we have provided some soft keys combination to perform several very useful tasks:

Windows:

- CTRL+left click: reset parameter to its default value.
- CTRL+right click or CTRL+Shift+left click: initialize the default value of the parameter.
- Win+Alt+CTRL + click: open the MIDI Control panel, with the parameter already selected.

OSX:

- Apple+left click: reset parameter to its default value.
- Apple+Shift+left click: initialise the default value of the parameter
- Apple+Alt+CTRL + click: open the MIDI Control panel, with the parameter already selected.

When a parameter is chosen via a drop down menu, just click on the button or label and select the item.

5.3. Using the XILS 201

The **XILS 201** instrument is a wonderful effect vocoder featuring 20 finely designed filter bands for a incredible voice reproduction.

5.4. Inputs Settings



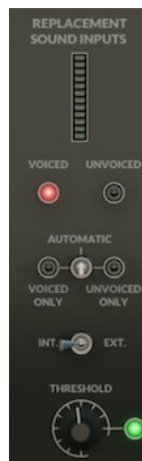
The level of the input is displayed by the vu-meter. It can be adapted by turning the **LEVEL** knob, or being enable or disable through the **MIC ON/OFF** switch.

The proper function of the vocoder depends on the correct adjustment of the various signal levels. For this purpose, the **XILS 201** provides an automatic gain control which can be enable by the **AUTOCONTROL** switch.

When using the internal carrier, its pitch can be controlled by the pitch of the modulator. For that, the input pitch tracker must be enable through the **PITCH TRACK.** switch.

This pitch tracker can be adapted to the audio material in one of the advanced settings panel which are described further in this manual.

5.5. Replacement sound Settings



Vocoding wouldn't be possible without a harmonic rich audio material used as a carrier. But for a convincing synthetic voice, some parts must be pitched (called Voiced such as vowels A, I, O, U ...) and some others not (called Unvoiced, such as F, CH, Z ...). The **XILS 201** provides an automatic detection of the Voiced and Unvoiced parts of the input signal. This way, depending on that detection, the internal

oscillator (or external carrier) is selected in case of voiced parts and the internal noise generator is selected in case of unvoiced parts.

You can choose to enable this automatic detection by setting the selector to **AUTOMATIC** or to disable it either in the **VOICED ONLY** mode (only the internal oscillator or external carrier would be used) or **UNVOICED ONLY** mode (only the internal noise generator would be used).

You can adapt the threshold of this detection by tweaking the **THRESHOLD** knob. The green led would be ON when a voiced signal is detected.

The internal oscillator could not be enough for your musical needs. In that case, switch the selector to **EXT.** and provide your external carrier (synthesizer, noise, specific sound, other voices, ...) through the **XILS 201** side-chain (described further in this manual).

5.6. Band level Settings



When the vocoder selector is set to **VOC NORMAL**, the **XILS 201** band level are set to 0 db giving a flat frequency response. On the contrary when set to the left, the level of each band is set by the corresponding knob position. This allows you to equalize the vocoder output accordingly to your needs.

When this selector is set to **OFF**, the vocoder output is disable.

The **VOLUME** knob is used for adjusted the **XILS 201** output level (after the effects)

5.7. By-Pass and Speech Addition/Multifilter Settings



The **XILS 201** provides a **BY PASS** selector for helping you to check the various level of your audio flow. When set to the left, the internal filtering is by-passed and the **XILS 201** output is simply the input speech signal with the level set by the **BY PASS** knob.

When set to the right, the **XILS 201** output is the simply the carrier signal with the level set by the **BY PASS** knob.

Set to **OFF** this switch disables this by-pass feature.

The **MULTIFILTER** switch allows you to add the input speech signal to the output.

When set to the right, the whole unprocessed speech signal is added to the output with a level set by the knob at its right.

When set to the left, each analysis band output with a level set by the corresponding knob, is added to the output.

5.8. Silent Bridging Settings



The **XILS 201** allows to use natural sounds with human articulation for effects such as whispering wind, complaining engine, reminding church bells, speaking organ, etc ...

It is however not sufficient to use the real noise as a carrier because the speech consists of very short articulation phases with many pauses between the words and syllables. Hence, the short duration of the speech phase is not sufficient to identify the real noise. It is then essential for this sort of effect, that the carrier become audible also during the articulation pauses. This automatic mixing of the carrier to the vocoded speech signal is called silent bridging or pause filling.

For this feature, when the **BRIDGING** selector is switch to the left, the **XILS 201** mixes the output of each carrier filter with the vocoder output, the level of each band being set by the corresponding knob. When the selector is set to the right, it's the whole carrier which is added to the vocoder output with a level set by the knob in the right.

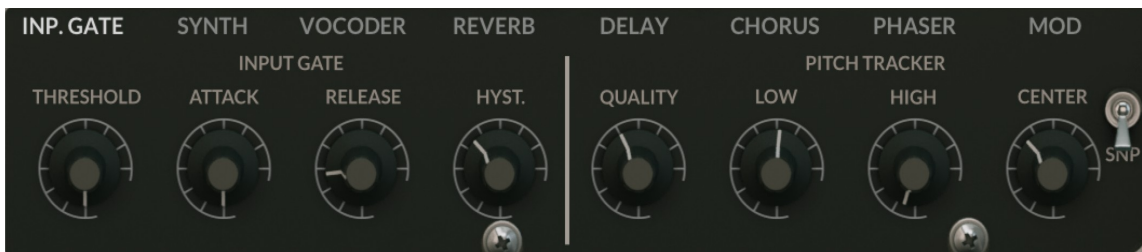
5.9. Advanced setting panel



This selector allows you to select which setting panel you want to see or modify.

5.9.1. Input/Gate Settings

In this panel you can adapt the input gate or the pitch tracker.



This gate avoids to feed the XILS 201 with noise when there is no speech or voices.

- **THRESHOLD:** this knob adjusts the threshold of the input gate. Over the threshold the gate opens, below the threshold the gate closes.
- **ATTACK:** sets the attack time of the gate
- **RELEASE:** sets the release time of the gate
- **HYST.:** sets an hysteresis to the threshold. This means that the gate opens over the threshold added by the hysteresis value and closes below the threshold subtracted by the hysteresis value.

The pitch tracker allows to modulate the pitch of the internal oscillator for following the speech melody.

- **QUALITY:** this knob adjusts the pitch smoothing. Turned left for a fast response, turned right for a smoother one.
- **ZERO:** this knob adjusts the the range and the base of the output pitch.

- **SNAP**: allows the pitch tracker to match the scaled notes.
- **LOW** : this knob adjusts the low frequency. The pitch tracker won't detect any pitch below this frequency
- **HIGH**: this knob adjusts the high frequency. The pitch tracker won't detect any pitch above this frequency.

5.9.2. Internal synthesizer Settings



In this panel, you can set the various internal synthesizer parameters.

Oscillator:

- **LEVEL**: this knob adjusts the level of the internal oscillator (a pulse waveform)
- **PULSE WIDTH**: this knob adjusts the width of the pulse
- **TUNE**: this knob adjusts the pitch of the oscillator from -12 to +12 semi-tones
- **RANGE**: this selector adjusts the range from -2, 0 or +2 octaves

Noise:

- **LEVEL**: this knob adjusts the level of the internal noise generator
- **FILTER**: this knob adjusts an internal filter for making the noise more or less rich

LFO:

- **FREQ**: this knob adjusts the frequency of the sine LFO
- **TEMPO SYNC**: when engaged, the frequency is calculated from the DAW current tempo

5.9.3. Vocoder Settings



In this panel, you can set the some of the vocoder internal parameters.

- **FILTER RESONANCE**: this knob adjusts the resonance of the filters
- **ENVELOPE SLEW RATE**: this knob adjusts the slew rate of the internal filter envelopes

5.9.4. Reverb Settings



In this panel, you can set the reverb parameters.

- **TIME**: Adjusts the reverb time.
- **LEVEL**: Adjusts the level of the reverb.
- **DAMP**: Adjusts a high frequencies release
- **DELAY**: Adjusts the pre-delay before the effect.
- **TYPE**: The reverb has three algorithms (**LG**, **MD** and **SM** for Large, Medium and Small), which can be chosen with the three-position selector
- **ROUTE**: This menu allows to select the input of this effect, either the Vocoder output or one of the other effects.

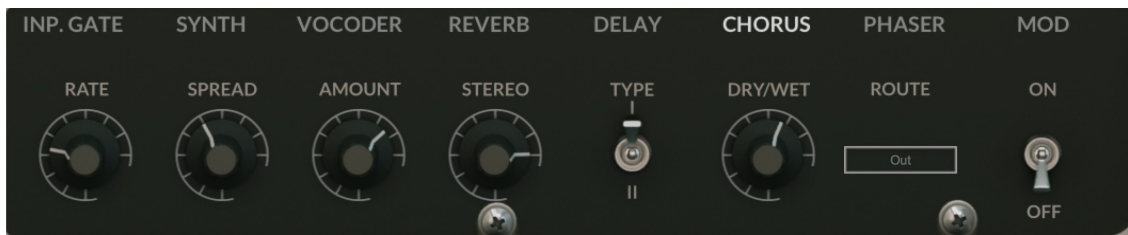
5.9.5. Delay Settings



In this panel, you can set the delay parameters.

- **DRY/WET**: Increases or decreases the effect.
- **TIME**: Adjusts the delay time (left or right).
- **FEEDBACK**: Adjusts the amount of the feedback (left or right)
- **TEMPO SYNC.**: Allows the time settings to be calculated from the current tempo.
- **ROUTE**: This menu allows to select the input of this effect, either the Vocoder output or one of the other effects.

5.9.6. Chorus Settings



In this panel, you can set the chorus parameters.

- **DRY/WET**: Adjusts the speed of the modulation.
- **RATE**: Adjusts the speed of the modulation.
- **SPREAD**: Adjusts how the chorus effect is increased.
- **AMOUNT**: Adjusts the amount of the modulation.
- **STEREO**: Adjusts the stereo effect.
- **TYPE**: set the type of the chorus.
- **ROUTE**: This menu allows to select the input of this effect, either the Vocoder output or one of the other effects.

5.9.7. Phaser Settings



In this panel, you can set the phaser parameters.

- **DRY/WET**: Increases or decreases the effect.
- **RATE**: Adjusts the speed of the modulation.
- **AMOUNT**: Adjusts the amount of the modulation (the width of the frequency sweep).
- **SWEEP**: Adjusts the frequency around which the modulation occurs to be set.
- **WIDTH**: sets the differences between the left and the right channel.
- **RESONANCE**: Adjusts the level of the internal feedback, allowing increasing or decreasing the level of the harmonics swept by the phaser.
- **ROUTE**: This menu allows to select the input of this effect, either the Vocoder output or one of the other effects.

5.9.8. Modulation settings



In this panel, seven modulation node are available. For each one, you can choose the source (modulation wheel, the After Touch, the LFO, ...) and the destination (Synth PWM, Reverb Level, Delay Dry/Wet ...) from a dropdown menu.

The **Amount** knob sets the level of the modulation.

The **Pitch Bend Range** knob sets the amount of the internal oscillator pitch when the pitch bend of the midi keyboard is used.

5.10. Using the XILS 201 as a simple effect

This is the easiest way to use the **XILS 201**, when chords or notes are not going to be changed.

For this you just have to insert your **XILS 201** in an audio track, mixer or effect rack (it can be used as an insert or a send effect).

Once the **XILS 201** is launched, select the following preset:

Bank: Factory, Author: XILS-lab, Preset: Simple VocoderC1

As you can see, the note C1 is held (it was right clicked then saved in the preset, see below)

Then start your DAW, your audio content should be input the **XILS 201** and modulating the carrier done with the oscillator triggered by the note C1: a typical Robot sound.

In any of **XILS 201** preset, right clicking on the virtual keyboard would memorize the note (left click would remove this record). This way, it's easy to adapt the chords or notes of the presets to your music, when using the **XILS 201** as a simple effect.

5.11. Using the XILS 201 as a Midi Controlled effect

If you want to use the **XILS 201** to make a melody from a spoken text or to make Vocoded Choirs and chords out of any signal, you need to feed the **XILS 201** with MIDI note On/Off events.

Therefore you have to create a MIDI TRACK in your daw, whose output will be routed to the input of the **XILS 201**:

1. Insert the **XILS 201** on the source Audio Track (Vocals, speak, keys, drums etc)
2. Create a MIDI TRACK in your Daw and assign its output to the audio track holding the XILS 201
3. Play or Record a melody/Chords on the midi track while your Daw is in Play mode

5.12. Using the XILS 201 with the side-chain

When you don't want to use the internal sound generator, you can feed the **XILS 201** vocoder with a carrier of your own (synthesizer, real noise, other voices, ...) using the side chain provided by your DAW.

In that case, you will have to switch the selector in the **REPLACEMENT SOUND INPUT** to **EXT**.

When this mode is enable, the pitch tracker doesn't modulate the carrier anymore.

6. Preset Management

6.1. Main Toolbar



In the toolbar you can find two buttons, displaying the category name (Bank, Author, Type, Style, Feeling or Project), which open the sort management menus.

The two first text fields show the current sorting group and the third shows the current preset.

Clicking on the arrow on the left of the category or preset names opens the corresponding menus.

Note: When a parameter is modified, the name of the preset is followed by a *, indicating that the current settings of the **XILS 201** no longer matches the stored preset.

When you want to save a modified preset, click on the **Save or Save As** button.

In order to prevent you from erasing them, the Factory presets cannot be modified. When you edit a Factory preset, the **Save** button will be grayed, and you will have to use the Save As function to save it in another bank.

If you edit any other preset than a Factory one, the Save and Save As function will both be available.

The main difference is that the Save function will save the preset under its current name, and with its current tags, overwriting the previous incarnation of the preset, while the Save As function opens a dialog box where you can modify the name of the preset, the bank in which it will be stored, and all its tags

The settings of the **XILS 201** are then saved in the currently displayed preset, and the * disappears. Click on the **Save As** button to save this preset with another name and/or to other sorting groups.

6.2. Preset menu

Click the **Preset arrow** button to open the preset menu. Here you can choose and load another preset from the current sort groups into the **XILS 201**.



In this menu, other actions are also available:

Delete Preset: use this to delete the current preset (a popup confirmation window appears). This option is only available if the current preset is not a factory one.

Export Preset: Use this function to export the current preset in an external file (.epsx format). This file can be imported later as a new bank. It always makes sense to back up your presets on external media.

Open preset Information (or click on SAVE AS): opens the following preset information window where the name and all other information related to the current preset can be displayed or changed.

CURRENT PRESET	BANK User	AUTHOR XILS-lab	TYPE Vocoding	STYLE Tutorial	PROJECT Any	FEELING Default
PRESET BROWSER	NAME TestVocoder				MODIFIED 19/03/2020	CREATED 19/03/2020

In this window you can modify the **Name** of the preset, specify the **Bank** in which the preset will be saved, and also enter information in the other fields:

- **AUTHOR** (Your name, mostly used by Sound Designers for factory presets),
- **Type** (Category of the instrument like Keys, Leads, Basses, etc.)
- **Style** (Musical Genre),
- **Feeling** (Cold, warm, soft) and finally
- **Project** (My Song, My_Live_Project).

You can also see its creation date and the last update date.

To modify a preset name, click in the preset field and enter the new preset name this will also save all the current settings.

To change presets information, click on the display, this will open a menu where you can select one of the existing items.

Note: You can add a new item in any category, and therefore create custom banks, custom styles, Projects, categories of instruments etc.

To add a new item in any field, select "**New....**". Which appears at the bottom of the list.

Note (You may have to browse until the end of the list in order to select "new" depending on its length.)

A Pop Up window opens when you can enter the new name. The current preset will then be associated to this new item.

Note: Please be aware that creating too many categories can also have its drawbacks, making browsing go from difficult and painful to nearly impossible. Should you create around 200 different custom instrument categories, it would become very difficult to browse the library using the Style sorting.

Once you have filled all the desired/required fields:

SAVE AS: Will save the current preset in the chosen Bank, with its new (or unchanged) Name, and tagged with all the fields you filled in.

SAVE: Allows saving the current preset in another location. This is handy to gather a lot of presets into a single location, or User Bank, which you can export in a single file containing all the presets you created or edited for a given project.

CANCEL: Will just cancel all operations and return to the standard XILS 201 GUI.

6.3. Sort menus



The sorting menus are unique and a powerful tool. Allowing you to perform sophisticated tasks, such as displaying the preset list organized in a variety of different ways:

- All the Bases of your Sound Library
- All the Bases tagged with a given musical genre
- All the Pads made by given Sound Designers
- All instruments for a musical genre like Electronica, or Funk
- All instruments that were recently imported in a bank (like additional sound-sets from Xils-Lab or 3rd party vendors)

There are indeed a lot of possibilities, and we're confident that you'll find the best way to customize it to your personal needs.

In order to perform such selections, all you have to do is to select an item in the first sort menu. This represents the first and main criteria for the search engine.

- **AUTHOR** (Your name, or a Sound Designer name for factory presets),
- **Type** (Category of the instrument like Keys, Leads, Bases, etc)
- **Style** (Musical Genre),
- **Feeling** (Cold, warm, soft) and finally
- **Project** (My Song, My_Live_Project).
- **ALL** (this item is not used for sorting the preset)

These primary results can then also be filtered according to second criteria. Which can be chosen from a similar list in the secondary sort menu.

Sometimes a picture is better than a lot of text, so you'll find below an example where you can find out how to select all the bases designed by a given Sound Designer.



Please note that, once you are familiar with this system, you can also perform some operations in a single click, by using the Sub Groups to choose a preset:

In the above picture the primary sort menu is used to browse the different banks. Then in a factory bank, the author Xils-Lab is selected, and finally the Preset strings_glide_video. In this example the preset is selected in a single click operation, and the presets available in the preset list will be all the Xils-Lab presets available in the entire Factory Sound Library.

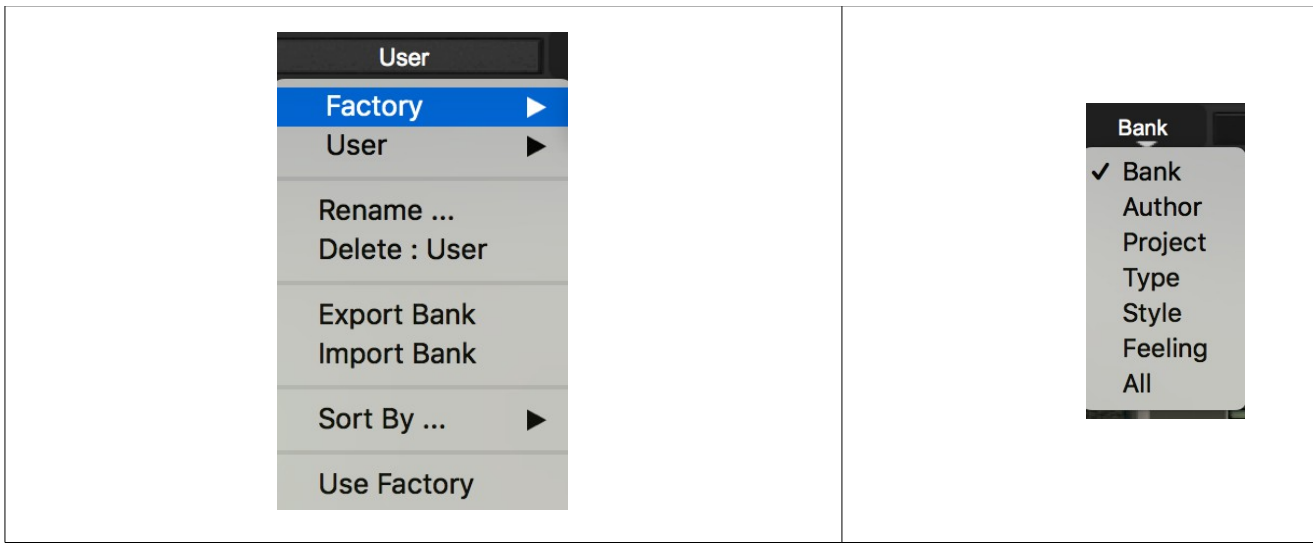
Click on the **row** of the sorting button to open the menu used to manage this sorting group (or sub group). Here you can directly select and load any preset from any group or subgroup.

6.3.1. Sorting Menu: Additional Functions

In this menu, other actions are also available:

Delete: deletes all of the presets of the current group that are not factory ones. **IMPORTANT: Use this function with care: If the bank does not contain any factory presets, ALL PRESETS IN THIS BANK WILL BE PERMANENTLY DELETED.**

Rename: modifies the current group name. Selecting this choice will open a window where the new name will be entered.



Use Factory: enables or disables the display of factory presets.

Sort By: This function sorts the presets according to bank, author, project, or shows all presets (**Bank Name, Author Name, Project Name, All Presets**). The preset menu will show presets of the same category (same author, same project or same bank).

Export Bank: This function exports a bank in the XILS 201's proprietary cross platform format, (Mac and PC). The selected bank (i.e. the bank which contains the currently active preset) will be exported to a user specified location on your hard drive.

Import Bank: This Function allows you to browse your hard drives to select a file and imports a XILS 201 bank.

These two choices are not available from the second **sort** menu.

This menu provides also the possibility to change the size of the interface. This feature is the same that the one provided in the **Option** menu.

6.4. Advanced Preset Manager

BANK	AUTHOR	TYPE	STYLE	PROJECT	FEELING
User	XILS-lab	Vocoding	Tutorial	Any	Default

BANK	NAME	MODIFIED	CREATED
VOC MultiVoices XO		19/03/2020	19/03/2020

BANK	TYPE	AUTHOR	FEELING	STYLE	PROJECT	PRESET
All	All	All	All	All	All	FX Dream XO
Factory	Vocoding	XILS-lab	Chord	Tutorial	Any	FX Dream2 XO
User			Default		Factory	MF Announce XO
			FX			MF Far Away XO
			MultiFiltering			TestVocoder
			Robot			VC ByPass XO
			Voice			VOC MultiVoices XO
						VOC Whisper XO

CTRL or Shift: Multi item selection

The preset manager provides two mode : **Current Preset Mode** and **Browser (or Tag) Mode**.

Current Preset Mode: This mode allows you to change any of the criteria of the current preset and save them as well as the current settings.

Click on a criteria and choose a new one in the menu. If you need a new criteria choose "New criteria" and submit the new name in the edit box. Click on the preset name for changing it.

When done, click on SAVE CURRENT (for replacing your preset) or SAVE AS CURRENT (for duplicating it)

Notice: When creating a new preset, this is the mode you need to go for saving your settings.

Preset Browser Mode: This mode allows you to easily sort your preset among multiple criteria for a fast selection.

Double click or hit Enter on a preset to launch it. Be careful, This will erase all the settings you could have done with the current preset.

Use the Arrow (up and down) for browsing the presets

Click on a criteria for displaying only the corresponding presets.

A grayed out criteria means that, according to the current selected criteria, there is no preset which this not available criteria.

The current preset and its associated criteria are **enlighten in green**.

There are two independent preset managers, one for the global preset (GLOBAL) and the other of the sequencer preset (SEQ).

Clicking on the Browser icon would open the Global Preset manager in Browser mode.

Clicking on the "Save As" icon would open the Global Preset manager in Current Preset mode.

Selecting "Save As" in the Sequencer preset menu would open the Sequencer Preset manager in Current Preset mode.

On each criteria, right-clicking would open a contextual menu. You can then rename, delete, export a criteria. In this two later cases, all the preset which are not in the "Factory" bank, corresponding to that criteria will be deleted or exported.

Favorite: you can add each preset in your "Favorite" or "Hidden" selection. In that case, when clicking on the "Favorite" icon, only the preset in your favorite selection will be displayed. When clicking on the "Hidden" icon, all the preset in your "Hidden" selection will be removed from the list.

Factory: The preset in the factory bank can't be changed or removed (shown by a lock at the right of the preset). When clicking on the "Lock" icon, all the factory preset will be removed from the list.

Import: By clicking on the IMPORT button, you can import bank of preset created for the XILS 505 (.xirs files).

Click on DONE for Closing the preset manager panel.

6.5. A/B comparison

You can store two different settings at the same time and instantly switch from one to the other to compare their settings. These two settings are stored in the **A** and **B** memories.

When you launch the **XILS 201**, the default-activated memory is A. When you load or modify a preset, this memory -A- is also modified in real time according to your edits. You can switch to B memory by clicking on the B button.

To copy the current active memory content to the other memory slot, just press the button labeled -> or <-, according to the current active memory.

With this A/B comparison system, you can easily have two settings and compare them in a convenient way.

Note: Please note that by default, the B memory slot, until you copy settings into it or until loading another

preset within the other memory slot, contains the same init patch loaded in the A memory when you first launch the **XILS 201**.

7. Option menu

This menu allows you to choose the global settings. These settings are defined for all the instances of the **XILS 201**. Each time an option is changed, the related option file is saved.

7.1. Main

In the toolbar, the **Options** button opens a menu for selecting various options for the XILS 201. This menu shows the following options settings:

XILS 201 About: displays information about the XILS 201 (version, build date and credits).

Open MIDI settings panel: Opens a popup where you can assign MIDI controllers for each of the XILS 201's parameters. Click on the parameter label to select the parameter you want assign, then enter the MIDI controller number (from 0 to 127), or switch on the learning switch and send a MIDI command with the correct MIDI controller number. The XILS 201 will memorize it. This setting popup can also be opened by CTRL+ALT+Apple+Left-click (Mac) or CTRL+Win+ALT+Left-click (Win) on the desired XILS 201 parameter.

7.2. Display

GUI follows presets: When checked, this option allows the GUI to follow the presets. That means that the special display modules are refreshed following the preset settings. Otherwise it keeps the same view.

Output level follows presets: When checked, this option allows the output level to follow the presets. Otherwise it keeps the same output level.

Popup On: shows a popup window while modifying the value of a knob.

Popup Over On: shows a popup window when the mouse is over a switch.

Popup Name On: the name of the current modified parameter is displayed.

Small GUI (1024 px): Select the smaller GUI size (need a relaunch).

Big GUI (2048 px): Select the bigger GUI size (need a relaunch).

7.3. Misc

Init settings from current settings: initializes the default values of the XILS 201 from the current settings. All the new presets will be created from these settings, when the **init settings** choice is selected. These parameters will also be used when setting a control to its default value. (Win: CTRL+click, OSX: ALT+Apple+Click).

Vocoder runs when DAW is stopped: When checked, this option allows the vocoder to run and process the input buffer when the DAW is playing. Otherwise, when the DAW is stopped, there is no output.

Wheel Incr: 0.01: parameter increment of 0.01 when using the mouse wheel.

Wheel Incr: 0.05: parameter increment of 0.05 when using the mouse wheel.

Wheel Incr: 0.1: parameter increment of 0.1 when using the mouse wheel.

Sustain Pedal Closed (Opened): set how your Sustain pedal is working

8. Credits

The presets were done by:

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The graphical user interface was created by:

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