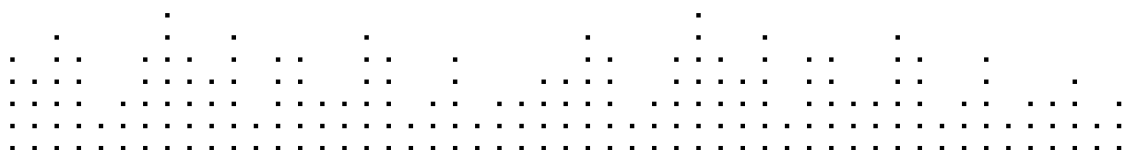


○ KORE 2

OPERATION MANUAL



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Users Guide written by Thomas Loop.

Special thanks to the Beta Test Team, who were invaluable not just in tracking down bugs, but in making this a better product.

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1. Introduction

This part of the User's Manual gives a brief overview over KORE 2's abilities and explains how to use this manual. Additionally, it contains notes about using the KORE 2 Controller safely and provides some general product-related information.

1.1 Welcome to KORE 2

Thank you for buying KORE 2. On behalf of the entire NATIVE INSTRUMENTS team, we hope you are truly inspired by this product.

KORE 2 has been designed in order to let you find the sound you have in mind fast. The Browser of KORE 2 is filled with musical attributes – specify any combination, and the sounds that match the description are immediately listed.

The repertoire of the KORE 2 Browser is filled with more than 500 sounds, each providing several variations which can be morphed seamlessly. They have been created for immediate use in your production: All 3.000 variations can be loaded and played instantaneously without the need for additional software, as KORE 2 is equipped with six Integrated Engines. Their individual power and sonic variety shape KORE 2 as The Super Instrument.

Effort has been given to make all sounds of KORE 2 accessible in a simple and unified way. While the technical details that generate a sound can differ enormously from engine to engine, your sound control is always similar: the most important parameters for each individual sound have been manually assigned to the hardware, and you can tweak them directly and effectively. The recall and morphing of variations can also be controlled remotely with the KORE 2 Controller.

Beyond these immediate usage possibilities, you can integrate any other plug-in into the KORE 2 host application. Import your favorite plug-in's presets into KORE 2 and integrate them into your sound database, or create more personal sound processing using more than Internal Audio and MIDI Components.

This manual will help you get the best out of KORE 2.

1.2 How to Use This Manual

This manual is split into three main parts: The first part explains how to install the KORE 2 hardware. The software installation and activation is described within the separate Setup Guide. The second part covers KORE 2 systematically and provides information about all parts of KORE 2, structured according to the software's user interface. As each part of the user interface is focused on a specific functionality, the manual structure will guide you quickly and easily to the information you need. Note that the reference part is introduced by two overview sections. They explain some basic concepts of KORE 2 and show how the user interface is



Within the margin column of this manual, additional information is given that often goes beyond a specific chapter's scope or provides additional hints.

structured. Reading these is strongly recommended if you want to understand and use all the features KORE 2 provides. The last part of the manual, finally, is the appendix that contains some specific information about using KORE 2 with other products by NATIVE INSTRUMENTS. It also holds an index of important terms as well as a keyboard shortcut overview.

1.3 Safety Considerations

Please always use the KORE 2 Controller according to the following security advices.

Warning

- ▶ Before using the KORE 2 hardware, please thoroughly read the instructions below and the Owner's Manual.
- ▶ The device contains no user-serviceable parts. Do not open the device or attempt to disassemble or modify any internal hardware. If it appears to malfunction, immediately stop using it and have it inspected by qualified service personnel.
- ▶ Do not expose the unit to rain, and do not use it near water or in damp or wet conditions. Also, make sure that no glasses or bottles containing liquids which might spill are placed on the hardware. Do not allow any objects or liquids of any kind to penetrate the unit.
- ▶ The KORE 2 Controller is USB bus-powered. Operation can only be guaranteed as a single device with a USB2 controller or with a self-powered USB2 hub.



Those who don't like reading manuals will find that after mastering a few basics, KORE 2 is unusually easy to learn. This is supported by the Info Pane of the KORE 2 software: Each time you move your mouse over an element of KORE 2, the Info Pane explains the control's usage. Note that you can set the Info Pane's language within the application's Options dialog explained in chapter 3.3.5 below.

Caution

- ▶ Do not place the KORE 2 Controller in an unstable position where it might accidentally fall to the ground.
- ▶ Before moving the KORE 2 Controller, remove all connected cables.
- ▶ Never use or store the unit in places that are subject to extreme temperatures (e.g., direct sunlight in a closed vehicle, near to a heating or heat-generating equipment), or high levels of vibration.
- ▶ Do not use excessive force on the buttons, knobs, switches, or connectors.
- ▶ When cleaning the KORE 2 Controller, use a soft, dry cloth. Do not use paint thinner, solvents, cleaning fluids, or chemically-impregnated wiping cloths.

1.4 Notes

- ▶ Disclaimer: Native Instruments GmbH cannot be held responsible for damage or data-loss caused by improper use or modification to the KORE 2 Controller or the KORE 2 software.
- ▶ Specifications subject to change: The information contained in this manual is believed to be correct at the time of printing. However, Native Instruments reserves the right to make changes to the specifications of software and hardware at any time without notice or obligation to update existing units.

- ▶ **Name Plate Location:** The name plate is located on the bottom of the product. It lists the product's model name and other technical information. The serial number is also located on the bottom of the unit.
- ▶ **Disposal Notice:** Should this product become damaged beyond repair, or for some other reason come to the end of its life, please observe all regulations of your country that relate to the disposal of electronic products. Copyright: © Native Instruments GmbH 2007. This publication may not be reproduced in whole or in part, summarized, transmitted, transcribed, stored in a retrieval system, or translated into any language, in any form or by any means without the prior written permission of Native Instruments GmbH.
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1.5 Software Installation

For details about the KORE 2 Controller driver installation, refer to Chapter 2.2 of this manual. More information about the KORE 2 software installation is available from the NATIVE INSTRUMENTS Setup Guide included with this package.

2. Hardware Setup

Thanks to the seamless integration of KORE 2's software and hardware components, your software becomes a tangible instrument that is highly intuitive and uniform in its operation.

- ▶ The KORE 2 Controller is a tactile interface to the world of KoreSounds. By implementing the Control Page concept explained in chapter 3.1.4, it unifies the interface of all different instrument and effect plug-ins within KORE 2.
- ▶ The KORE 2 Controller can also access all types of SOUND VARIATIONS, and can act as a powerful hardware interface to KORE 2's Sound Database.

If you own a KORE 1 Controller, please note that it is fully compatible with KORE 2. Read more on this in chapter 3.9.



When you install KORE 2 for the first time, please make sure that you also choose to install the KORE 2 Controller driver. Refer to chapter 2.2 for more information.

2.1 The hardware elements of your KORE 2 Controller

2.1.1 Rear Panel



(1, 2) Footswitch ports

These two ports can be used to attach any type of foot controller. The inputs only work with on/off signals. The footswitches can be assigned to USER PAGE buttons. Read more on using footswitches in chapter 2.3.3.

(3, 4) Pedal inputs

Various pedals (expression, sustain, volume, etc.) can be attached here. The pedal input receives continuous signals. It can be assigned to USER PAGE Knobs. Read more on using pedals in chapter 2.3.3.

(5) USB 2 port

Be aware that at least the USB 2 connection has to be established to make the KORE 2 Controller work; all other connections described here are optional. It provides the unit's functionality as a Controller and supplies electrical power to the hardware.

(6, 7) MIDI Input/Output

The KORE 2 Controller is also a MIDI interface. Use the IN port to attach a master keyboard and the OUT to drive an external device such as a drum machine or sampler. Please note that, at the time of writing, the KORE 2 Controller's knobs, buttons, and transport do not send MIDI information.

(8) Kensington Lock socket

Use this to attach a Kensington-style lock to prevent your KORE 2 Controller from being stolen. This kind of lock can be found at dealers for notebook accessories.

2.1.2 Top Panel



1-8: Controller Knobs

These are digital endless encoders with a far higher resolution than would be possible with the MIDI standard. They control the target parameters incrementally, leading to a very smooth control of values on the software side. You can also use the Control Knobs to morph between SOUND VARIATIONS.

The Control Knobs are touch-sensitive, i.e., if the knob is touched (without altering its value) the KORE 2 Controller reacts and displays the controller's name and its current value in the hardware display (32). This is also very convenient for assigning parameters. Each Control Knob is surrounded by a Selection Ring that displays a dimmed red light if there is an assignment (i.e., functionality) present. It blinks when the controller is becoming assigned, and it is bright red when the knob is touched on the hardware or clicked in the software.

9-16: Controller Buttons 1-8

The buttons contain a light indicating their on/off state. On the software level (see the section about Control Pages) the buttons can be used in gate or toggle mode. They can also be used to recall a Sound Variation's settings.

17: Stop

Equivalent to the TRANSPORT AREA'S STOP button.

18: Start

Equivalent to the TRANSPORT AREA'S START button.

19: Record

Unused in this version of the KORE 2 software.

20: Pre-Listen

Activates PRE-LISTEN mode for quickly testing KoreSounds.

21: Control

This button provides access to the CONTROL PAGES of the component currently in focus.

22: F2

Jump to the BROWSER and the hardware options with this button.

23: Sound

Switches into SOUND MODE for navigating the SOUND MATRIX. SOUND MODE also allows to morph SOUND VARIATIONS.

24: Enter

This button confirms a selection and enters a selected SOUND MATRIX level.

25: F1

This button is context sensitive and changes its function depending on the situation. Please read chapter 3.9 for details.

26: Escape

Use this button to return to the next higher level of the menu structure.

27: Scrollwheel

The wheel has the same function as the Up/Down buttons.

28-31: Up, Down, Left, Right

Navigation through channels, Pages, menus and lists.

32: Display

The Main Display shows Controller states, Pages, parameter names and values, menus, lists and folder structures.

2.2 Driver Installation

KORE 2 is a tightly integrated system of software and hardware. Before using the KORE 2 Controller, the hardware driver must be installed.

If you are unsure if the driver was correctly installed during the installation procedure, you can add it manually: The driver installer is located in the KORE 2 Program Folder on your computer.

Windows: Program Files / Native Instruments / KORE 2 /

Mac OS X: Applications / KORE 2 / Driver /

Driver Installation on Windows XP

- ▶ Insert the KORE 2 Installation CD into the CD-ROM drive or locate the driver setup in the KORE 2 program folder, *Program Files / Native Instruments / KORE 2 /*.
- ▶ Use the Windows Explorer to view the contents of the folder.
- ▶ Start the installation by double-clicking *Kore 2 Driver Setup.exe*
- ▶ The setup program will suggest *C:\Program Files\Native Instruments\KORE 2* as the path for the destination folder. You may also choose another folder if you wish.
- ▶ During the installation you will be asked to attach the KORE 2 Controller. Please connect the KORE 2 Controller to a USB2 port on your computer and follow the installation dialogs until installation is finished.



Start the driver install process before connecting the KORE 2 Controller to your computer.



For Windows XP, Service Pack 2 is necessary for the KORE 2 Controller to function properly. This Windows update provides support for USB 2.0.

Driver Installation on Mac OS X

- ▶ Insert the KORE 2 Installation CD into the CD-ROM drive or locate the driver setup in the KORE 2 application, folder *Applications / KORE 2 / Driver*.
- ▶ Start the driver installation package *NI Hardware Driver Installer.app* with a double-click.
- ▶ After clicking “Continue” you can select the installation location. The startup disk is chosen by default.

2.3 Connecting the Hardware

2.3.1 Connecting the hardware to a computer

Before using your KORE 2 Controller, the driver must be installed. If this has not taken place, please refer to the manual section above for instructions on manual driver installation.

After starting your computer, connect the KORE 2 Controller to your computer with the enclosed USB cable and launch the KORE 2 application.

Whenever the KORE 2 Controller goes from a power-off to power-on state (by connecting it to a powered-up computer or starting the computer with the Controller connected), it initiates a routine that calibrates its knobs. During this process, the red Selection Ring around the knobs stays lit. Do not touch the controls, or have anything lying on top of the Controller that might affect a knob position, during calibration as the calibration will be

inaccurate. If you accidentally move a control, disconnect the KORE 2 Controller then re-connect it to re-initiate calibration.

2.3.2 Connecting to an external MIDI device

Hardware:

To receive data from a MIDI controller such as a keyboard or a MIDI pedal board, connect the MIDI Out socket of your controller to the MIDI In socket on the KORE 2 Controller with a MIDI cable. To send MIDI data from KORE 2, connect its MIDI Out socket to the MIDI In on the device you wish to control. Make sure both connected MIDI devices are set to the same MIDI channel.

Software:

In the FILE MENU choose *Audio and MIDI Settings*. On the MIDI TAB, activate the *NI KORE 2 MIDI* device by clicking on OFF. When the device is enabled it will show ON.

2.3.3 Connecting a pedal or footswitch

Additional pedals (expression, volume, etc.) can also be used with the KORE 2 Controller by connecting them to the PEDAL INPUTS to the right of the MIDI jacks. The pedals are calibrated automatically when the KORE 2 Controller starts up. If the pedal and/or footswitch are plugged in after KORE 2's initial power-up, recalibrate KORE 2 as described in chapter 3.3.5.



It can happen that the display is showing stripes or other artifacts. Go into the options menu of the controller and tweak the Contrast and Brightness settings to correct this.

Footswitches can be connected to the two inputs at the far left of the back panel. Either normally closed or normally open type footswitches can be used, but make sure they're plugged in on power-up so that KORE 2 can detect which type you're using. Please read chapter 3.5.3 for information about assigning footswitches and pedals to KORE 2's CONTROL PAGES.

3. Reference

The reference chapters make up the bulk of this manual. Here you will find detailed description of all functions, commands and interface elements of KORE 2. Please make sure that you at least completely read the chapters 3.1 and 3.2 for getting an overview.

3.1 Important concepts: Understanding KORE 2

The following paragraphs provide general information about KORE 2. You will read about hosts and plug-ins, INTEGRATED ENGINES and other NATIVE INSTRUMENTS products that work with KORE 2. You will also be introduced to the way KORE 2 integrates hardware and software to produce one easily usable entity, and the powerful concept of nested sounds is presented. If these terms are familiar to you, feel free to skip these passages. However, reading these chapters will help you to better your understanding of KORE 2 and its concepts.

3.1.1 The instrument KORE 2: Stand-alone, plug-in and host

KORE 2 is an instrument that can create a wide variety of sounds natively on your computer without the need for additional hardware. Just as you would switch on a hardware synthesizer you can simply launch KORE 2 on your computer and it connects directly to the computer's hardware. This

hardware would be your audio interface and any MIDI keyboard or controller available. This mode is called stand-alone within this manual.

However, a hardware synthesizer will probably not be used alone but in combination with a mixing desk, an effect rack and some cabling. You cannot connect software with cables, so another mechanism is used to accomplish this common use case: A so-called host application loads other applications during runtime as plug-ins. While the plug-in applications represent the synthesizers, samplers or effect units, the host application mimics the mixing environment.

Within the host you can define how the plug-ins are connected and there you also handle your system's hardware.

Sometimes an application can be used as a stand-alone and as a plug-in; and some applications may be used as a plug-in and as a host. Often, stand-alone applications are hosts that use plug-ins (in both senses) – common examples are software sequencers. Those sequencers mostly do not work as plug-in versions. Vice versa, there are synthesizers and, more commonly, effects which are only available as plug-ins and cannot be used as a stand-alone without the host. KORE 2 however, can be used in all suggested ways.

KORE 2 provides a stand-alone version and a plug-in version. You can use KORE 2 without any other software, as described above, but you can also use it as plug-in within another host. This ensures that you can combine it with any other sound generator you want to use.

But KORE 2 is also a host by itself and can load other plug-ins. This functionality is available when KORE 2 is running as stand-alone as well as in plug-in mode; in the latter case, KORE 2 becomes a sub-host.

We will expand on the sub-host concept in the following chapter (introducing the idea of nesting) while chapter 3.1.3 comes back to plug-in concepts.

KORE 2 as a stand-alone

As stand-alone software KORE 2 becomes your one-stop solution for live and studio work.

The stand-alone version of KORE 2 adds four menus on the application level:

- ▶ The **FILE MENU** provides functions to create, load, and save Performances and KoreSounds plus access to KORE 2's Preferences.
- ▶ The **EDIT MENU** allows working on the KORE 2 mixers by offering functions like creating, copying and pasting channels. It also comes with a handy Undo system.
- ▶ On the **VIEW MENU** you can control the contents of the application window.
- ▶ The **HELP MENU** is your launchpad to the **NATIVE INSTRUMENTS Service Center** for management of your licences and to support material on the **NATIVE INSTRUMENTS website**.

KORE 2 as a plug-in

The plug-in version of KORE 2 is identical with the stand-alone version, except that it's lacking the abovementioned menus and for the fact that in a host environment the sequencer takes care of all things audio and MIDI. The commands of the stand-alone menus that are also of relevance for the plug-in can be found on the **GLOBAL PLUG-**

IN MENU. In plug-in mode, KORE 2 works in any host program (e.g., Cubase, Logic Audio, Pro Tools, Ableton Live, Sonar, Digital Performer, Tracktion, etc.). KORE 2 inserts into the program's mixer as a virtual instrument or effect (there are different versions of the KORE 2 plug-in for these tasks). But also note that the KORE 2 plug-in is a VST/AU host in itself. This allows KORE 2 to organize, mix, and control multiple plug-ins within the host.

When you have multiple KORE 2 plug-in instances running in your host software you can easily navigate them via your KORE 2 Controller (see chapter 3.9).

There are three different versions of the KORE 2 plug-in:

- ▶ Kore 2 is the normal VSTi instrument
- ▶ Kore 2 FX is the effects version providing signal input
- ▶ Kore 2 2x16 provides 16 stereo outputs for using KoreSounds with multiple outs. Please be aware that multiple outputs also lead to a higher CPU load.

3.1.2 SingleSounds, MultiSounds, Performances and Nesting



The EDIT AREA of a Performance containing nested Sounds.

It can be a time-consuming task to find the sound that exactly fits into the music you are working on. Following the paradigm described above, you need to load different plug-ins into your host, and you need to handle each of them differently in order to find an adequate sound; tweaking the sound again requires a plug-in-specific procedure. KORE 2 allows you to abstract from the plug-ins' particularities. Instead, you can focus on the sound. KORE 2 provides a concise interface to handle your different plug-ins' parameters in a standardized way (this is the KORE 2 Controller's function), and the database contains all sounds of all plug-ins installed on your system, tagged with musical attributes for quick access.

Each entry in the database is a so-called KoreSound. It holds the mentioned ATTRIBUTES as well as additional information, for instance the sound's author,



If you are familiar with sampling techniques, you can think of a KoreSound as being similar to a sample. The only difference is that a sample is the recording of a sound, while the KoreSound is a “recording” of the structure which generates a sound. This allows the reproduction of the sound at any time but it also provides extensive editing capacities impossible with samples.

the location on the hard disk or arbitrary comments. Technically, it tells KORE 2 which plug-in is used to generate the sound, and which settings are required within the plug-in in order to produce exactly the sound the KoreSound was saved for. While the KoreSound takes care of the technical details, you can concentrate on making music.



A KORE 2 SingleSound on the EDIT AREA.

A KoreSound referencing only one plug-in is called a SingleSound. MultiSounds, on the other hand, differ from SingleSounds in one important aspect: It can hold any number of plug-ins to generate a sound, connected to each other in arbitrary ways. However, as with a SingleSound, you don't need to care about the way the plug-ins are handled. The MultiSound's technical structure is encapsulated (of course you can edit all the details if you want).



This is a MultiSound with its SOUND MATRIX expanded.

The KoreSound concept also explains why KORE 2 is a sub-host. On one hand it is used as an instrument: You can load it as a plug-in with a wide variety of sounds at hand – the KoreSound database with each entry representing one possible sound of the KORE 2 instrument. On the other hand KORE 2 provides this variety by hosting plug-ins as defined within the loaded KoreSounds. The sub-host idea is taken to the extreme by the fact that a MultiSound can hold any other KoreSound instead of a plug-in.



Referring to the comparison between KoreSounds and samples again, SingleSounds can be seen as recordings of single instruments, while MultiSounds are recordings of whole bands or orchestras, often including the arrangement and a conductor – technically: a step sequencer or an arpeggiator.

The concept of KoreSounds within a KoreSound is called nesting within this manual.

Nesting allows two things: On a basic level it provides the possibility to easily combine not only SingleSounds, but also MultiSounds into a new MultiSound. This bridges the gap between both types as you don't need to care which type you are working with (unless you want to change the inner workings of a KoreSound). On an advanced level, you can create any signal flow you can think of: Even feedback loops are possible.

With the nesting concept in mind it is also obvious that the top level of KORE 2 – the Performance, filled with KoreSounds via the BROWSER – is not very different from a MultiSound. You can, for example, save the whole Performance as MultiSound (using the FILE MENU) and load it as part of another Performance. The only difference between Performances and MultiSounds lies in non-structural information: A Performance saves the global clock's BPM value, for instance, while a MultiSound adapts its speed to the global value.

Again, the building blocks of KORE 2's sound engine are (from the bottom to the top of the hierarchy):

- ▶ The Single Sound
- ▶ The Multi Sound
- ▶ The Performance

Except for the Performance, everything on this array of Sounds is interchangeable and you can recombine it via drag and drop or convert and save parts of the structure as self-contained KoreSounds.

Another important idea to get when working with the **SOUND MATRIX** is the focus. There is always one component of the matrix currently focused. This can be a **CHANNEL INSERT**, a channel (click its **CHANNEL HEADER**), the **AUDIO TAB**, the **MIDI TAB**, and so on. The components can be focused with a singleclick of your mouse or by navigating the **SOUND MATRIX** with your **KORE 2 Controller** (see chapter 3.9)

3.1.3 Integrated Engines and VST/AU-plug-ins

Similar to a hardware mixer, in most cases host applications don't generate sound by themselves. This task is left to the plug-ins. The host only provides the environment for the plug-ins in terms of routing, control and hardware access.

KORE 2, however, is an instrument, and therefore it features six sound-generating **INTEGRATED ENGINES**:

- ▶ **ABSYNTH**
- ▶ **FM8**
- ▶ **GUITAR RIG**
- ▶ **KONTAKT**
- ▶ **MASSIVE**
- ▶ **REAKTOR**

These engines are derived from six products by **NATIVE INSTRUMENTS** and bring their full functionality except for the fact that **INTEGRATED ENGINES** don't have a graphical user interface. The way you can interact with them is described in the following chapter.

When installing KORE 2, its factory content automatically is installed, too. You can access it with the BROWSER. These sounds use the INTEGRATED ENGINES, so you don't need any other plug-in to make music with KORE 2. If you own a license for one of the INTEGRATED ENGINES and have it installed, KORE 2 will automatically substitute the INTEGRATED ENGINE with the full version and also integrates the additional factory content into the database.

Beside the INTEGRATED ENGINES, VST- and AU-plug-ins of any origin can be loaded into KORE 2. However, KORE 2 cannot provide KoreSounds for them directly. There is a convenient batch process to convert all patches of a loaded plug-in into KoreSounds automatically. Each resulting KoreSound represents one of the plug-in's sounds, and they are fully integrated into KORE 2's database. Please note that the KoreSounds only reference the plug-ins, they don't contain them. You can copy any KoreSound from one computer to another – this is even possible between Mac OS X and Windows computers – but, the KoreSound won't work unless the same plug-in is also installed on the second machine.

KORE 2 and plug-in parameters

It is important to note, that the interaction between KORE 2 and the plug-ins yields different results, depending on the way the respective plug-in handles automatable parameters. KORE 2 can only use and control those parameters that are exposed by the plug-in via the VST- or AU-interface. Depending on the design of the respective plug-in, this can lead to some confusion. With some modular virtual instruments, like KONTAKT and REAKTOR, it is impossible to design a stable set of parameters that gets



The conversion of a plug-in's patches into KoreSounds has already taken place for the products of NATIVE INSTRUMENTS, and you can install manually refined KoreSounds for those you own. Check your KORE 2 Installation DVD for a dedicated installer, and consult the Service Center's Update Manager for recent additions.

exposed to the host software. As the setup of a REAKTOR Ensemble or a KONTAKT Multi can be arbitrarily complex, the creators of the respective patches have to decide and manually program the parameter set. Please be aware of this when you create your own REAKTOR Ensembles or KONTAKT Instruments and refer to the documentation of the respective plug-in if you are unsure how to manage this. For the Native Instruments KOMplete 4 series of virtual instruments, the complete library of patches has been prepared for the use in KORE 2. Please refer to Appendix A for more information about the special behavior of some KOMplete 4 plug-ins. Appendix A is also a good read if you want to integrate your own REAKTOR Ensembles in KORE 2. It contains a dedicated section about REAKTOR in KORE 2.

KORE 2 and sample libraries

KORE 2 acts as a host for VST-/AU-plug-ins. This means it directly handles the parameters that are exposed by the various plug-ins. But plug-ins do not only consist of parameter settings, they also bring along other content, like samples. KORE 2 only loads the plug-in and the sample content is handled on the plug-in level without control by KORE 2. This leads to some pitfalls when handling sample libraries. The basic rule is that the respective plug-in has to know where to find its content so that it loads correctly in KORE 2. If the plug-in alone doesn't even know where to find its content, it won't know it in KORE 2, either. If you ever experience problems with samples not loading in KORE 2, be sure to first check the settings inside of the respective plug-in and do not look for the problem in KORE 2. Some rules of thumb:

- ▶ If you want to use the factory content of a plug-in, make sure that the structure of the factory libraries remains unaltered.
- ▶ If you move the factory library around on your file system, you have to set the new location inside the respective plug-in and not in KORE 2.
- ▶ You can add folders to a factory library, as long as the original content remains untouched.
- ▶ Be aware of the fact that modification of non-integrated engine factory content will change the behavior of KoreSounds in KORE 2's factory library, so always save your modified patches in your own file structure and do not overwrite the original.

3.1.4 Hardware and Software: The Control Page system and Sound Variations

Any KoreSound provides CONTROL PAGES. A Control Page is a set of controls – eight buttons and eight knobs – that remote-control a user-defined set of the KoreSound's parameters. This unifies the handling of KoreSounds and of underlying plug-ins to large extend. All KoreSounds coming with KORE 2 provide dedicated Pages that use all capacities of the system. One knob or button of a CONTROL PAGE often remote-controls several parameters at once, each with a particular range, some of them inverted – the possibilities are endless. You can easily create similar Pages for your own usage as the CONTROL PAGE system sports a LEARN mechanism: Enable the LEARN mode, arm a Page's CONTROLLER KNOB by clicking on it, and alter a parameter of the KoreSound the Page belongs to – for instance the underlying plug-in's cutoff control. After disabling the LEARN

mode, you can conveniently remote-control the cutoff from the KORE 2 interface directly and don't need to open the plug-in's editor separately. Easy access to parameters is taken to the next level by the KORE 2 hardware offering you a physical representation of the CONTROL PAGES. By selecting a KoreSound within KORE 2, its Pages are automatically mapped onto the KORE 2 Controller. As the Pages are available for all KoreSound, you can now "touch" any plug-in you use in KORE 2, and you can modify even advanced MultiSounds with a twist of your fingers. KORE 2 is a tightly intergrated and highly interactive package of software and hardware for sound design, studio work and live performance.

Besides that, CONTROL PAGES also form the basis for SOUND VARIATIONS, another property of every KoreSound. A SOUND VARIATION is a snapshot of the KoreSound's CONTROL PAGE settings. This means that you can tweak a KoreSound via its Pages (and the hardware), until it fits your needs and save these settings as a SOUND VARIATION. You can alter it further and save the new result as another SOUND VARIATION. Each KoreSound can hold up to eight them.

You can recall any of them instantaneously. KORE 2 even allows you to MORPH between SOUND VARIATIONS. While loading a SOUND VARIATION simply sets all parameters of the KoreSound's CONTROL PAGES to specific values, morphing gradually transforms the settings from the old to the new settings. Depending on the parameters that are remote-controlled by the Pages, this can create completely new, previously unheard sounds.



Each KoreSound of the KORE 2 factory content already provides eight Sound Variations.

3.2 A user interface overview

On the following pages we will introduce KORE 2's interface by explaining the different elements in a broader, functional way. In this section you will also learn the names of the most important controls to help you while reading this manual.



The KORE 2 interface with the GLOBAL HEADER on top, the UPPER PANE below, the LOWER PANE displaying the Browser and the INFO PANE on the bottom.

KORE 2 has four main interface areas. This chapter will give you an overview of KORE 2's functionality.

The interface is very flexible and various elements can be hidden via switches found on the GLOBAL HEADER to suit the situation at hand.

The four areas are called:

- ▶ GLOBAL HEADER
- ▶ UPPER PANE
- ▶ LOWER PANE
- ▶ INFO PANE

The GLOBAL HEADER is always visible and contains buttons for toggling the display of the main interface elements (GLOBAL CONTROLLER, EDIT AREA/SOUND MANAGER, BROWSER, and INFO PANE) plus the TRANSPORT AREA and the ACTIVITY AREA. The UPPER PANE is the area just below the GLOBAL HEADER. Depending on the settings of the VIEW BUTTONS, it can either display the GLOBAL CONTROLLER and the EDIT AREA (which shows the SOUND MATRIX) or the GLOBAL CONTROLLER and the SOUND MANAGER (which deals with Keyboard Mapping and Automation).

The LOWER PANE contains the BROWSER.

The INFO PANE can be hidden via a switch on the GLOBAL HEADER. It displays small helpful explanations if you mouse over the various elements of KORE 2's interface.



The KORE stand-alone and the plug-in are identical in this respect. The plug-in only lacks the menu bar of the stand-alone application. You can reach the commands applying to the plug-in via an extra menu of the plug-in's **Global Header**.

3.2.1 Global Header



The topmost strip of controls is called the GLOBAL HEADER. It is always visible and you can think of it as the central control of KORE 2's interface. Its main purpose is to change KORE 2's interface to match the situation at hand and provide direct control of global parameters. The VIEW BUTTONS are your cockpit for switching between the various views of KORE 2. Depending on the task – and on the available screen estate – you will quickly find the best configuration. You can toggle between the EDIT AREA with the SOUND MATRIX and the SOUND MANAGER via the dedicated buttons. If the BROWSER is active, the SOUND MATRIX or SOUND MANAGER, respectively, can be hidden to maximize the BROWSER.



Use this interface flexibility to your advantage by hiding the Edit Area when you want to load and play sounds, only; or by having only the Global Controller and the Sound Matrix (quick focusing of sounds) visible when performing.



Two different views on KORE 2. On top you see a minimal KORE 2 with the top level of the Sound Matrix, only. Below there is a full-fledged view with Global Controller, Sound Matrix and Browser.

The TRANSPORT AREA deals with all time and measure related functions. KORE 2 has an internal clock that can be used to synchronize all time-



When using KORE 2 as a plug-in in the global clock is provided by the host software and cannot be influenced from within KORE 2. It will run synchronized automatically.

dependent parameters inside the instruments and effects. It also controls the tempo of possible sequencers, MIDI players and arpeggiators. Use those controls to start and stop the clock, dial in a new tempo with the TEMPO EDIT or tap the tempo to synchronize with your musical partners. The TIME SIGNATURE of KORE 2's clock can also be edited here.

The BAR DISPLAY gives you a visual clue of your position in the current bar. The last section of the GLOBAL HEADER displays the ACTIVITY AREA, which displays vital KORE 2 information such as the names and values of the parameters you are editing, the MIDI ACTIVITY LED and the CPU USAGE DISPLAY. It also contains a handy MIDI PANIC button and the SAVE PERFORMANCE button. Please read chapter 3.3 for a detailed description of the global controls.

3.2.2 Global Controller



The GLOBAL CONTROLLER is a context-sensitive view on KORE 2's CONTROL PAGE system. You can learn more about this system in the dedicated chapter (chapter 3.5) further down. You will see that every sound and every channel in KORE 2 has its own set of CONTROL PAGES. There is a set of pre-defined Pages, which can also be tailored to your own needs. The GLOBAL CONTROLLER helps to organize the many Pages of the channels containing the various Sounds that sit in the SOUND MATRIX.

Normally, the GLOBAL CONTROLLER displays the CONTROL PAGES of the sound or channel currently in focus on KORE 2's software interface or on the KORE 2 Controller hardware. On the software interface you can focus a channel by clicking on its CHANNEL HEADER and a sound by clicking on the CHANNEL INSERT it resides in. However, you can also lock the GLOBAL CONTROLLER to keep the current component in focus regardless of KORE 2 Controller status. Click on the LOCK button to do this.

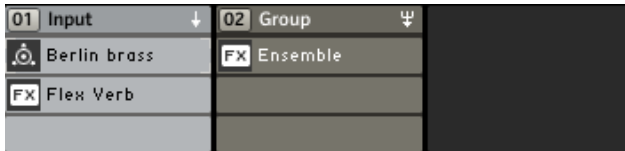


You can toggle the view of the Global Controller by clicking on the dedicated Global Controller button on the Global Header.



A nice performance setup could have the most important parameters on a locked User Page for fast control via the hardware. Use the interface to control the more detailed stuff, when necessary.

3.2.3 Edit Area and Sound Matrix



The areas of KORE 2 that actually produce and process sounds are found in the channels of the **SOUND MATRIX**. A channel is a hierarchical system of **CHANNEL INSERTS** (the slots of the matrix), each of which can hold a **KoreSound**. This can be a **SingleSound** or a **MultiSound**, leading to a flexible workflow.

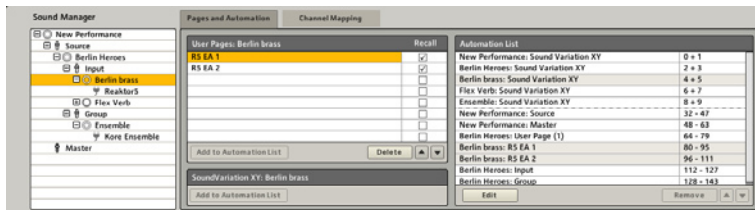
There are three different channel types available:

- ▶ **Source Channels** hold sounds without signal inputs.
- ▶ **Input Channels** are used for audio input from external hardware or parental **Sound Matrix** levels.
- ▶ **Group Channels** sum and process the output of channels of the same **Sound Matrix** Level.

The channels change their form according the entry chosen on their **INPUT** **Source** menu. Signals – be they audio or MIDI – are sent through the Matrix from top to bottom, from the parental mixer level to the child and from the higher **CHANNEL INSERT** to the lower. Input and output parameters are controlled via the **AUDIO** and **MIDI TABS** placed right below the respective **SOUND MATRIX** levels. These two **Tabs** are displayed alternatively, just click on “**AUDIO**” or “**MIDI**”, respectively, to display their parameters. Via the **Aux**

sends, audio signals can flow horizontally within one mixer level. MIDI data can also be distributed within a SOUND MATRIX level via a dedicated system of sends on the MIDI TAB. The display of the EDIT AREA and SOUND MANAGER is mutually exclusive, as they both sit on the same space of the interface. Please note that you can completely hide those two views, which can come in very handy for navigating large lists of Sounds in the BROWSER. Details about the SOUND MATRIX can be found in chapter 3.4.

3.2.4 Sound Manager

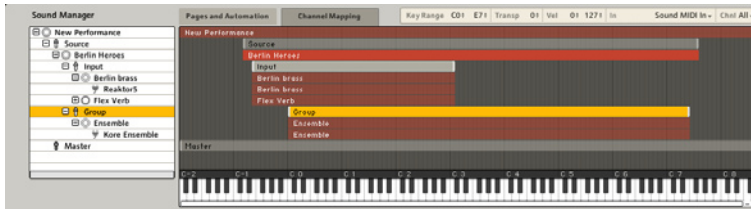


In the SOUND MANAGER you work on the keyboard ranges of the KoreSounds, manage the CONTROL PAGES and the list of automatable parameters that are published to the host software when KORE 2 is running as a plug-in. The parameters can then be remote-controlled by the facilities of the host software (e.g. by “drawing” curves on the sequencer’s automation tracks).

The RECALL function of the PAGE LIST decides if the Controllers of the respective Page can be part of SOUND VARIATIONS.



If toggled on by clicking on the Sound Manager button on the Global Header it replaces the Edit Area on the screen.



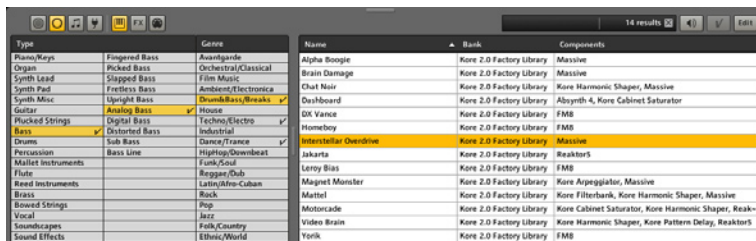
The CHANNEL MAPPING TAB provides an easy to use editor for setting up the key ranges of all the channels in a Performance. The ranges are displayed on a concise graphical window that can be directly manipulated via the mouse.

Please read more on the SOUND MANAGER in chapter 3.6.



This can be used to easily layer sounds for fast but unique and creative sound design.

3.2.5 Browser



Type	Genre	Name	Bank	Components
Piano/Keys	Fingered Bass	Avantgarde	Kore 2.0 Factory Library	Massive
Organ	Picked Bass	Orchestral/Classical	Kore 2.0 Factory Library	Massive
Synth Lead	Slapped Bass	Film Music	Kore 2.0 Factory Library	Massive
Synth Pad	Fretless Bass	Ambient/Electronic	Kore 2.0 Factory Library	Kore Harmonic Shaper, Massive
Synth Misc	Upright Bass	Drum/Bass/Beats	Kore 2.0 Factory Library	Absynth 4, Kore Cabinet Saturator
Guitar	Analogue Bass	House	Kore 2.0 Factory Library	FMB
Plucked Strings	Digital Bass	Techno/Electro	Kore 2.0 Factory Library	FMB
Bass	Distorted Bass	Industrial	Kore 2.0 Factory Library	FMB
Drums	Sub Bass	Dance/France	Kore 2.0 Factory Library	Massive
Drums	Bass Line	Hi/Hop/Dre/Beats	Kore 2.0 Factory Library	Reaktor5
Mallet Instruments		Funk/Soul	Kore 2.0 Factory Library	FMB
Flute		Beggar/Club	Kore 2.0 Factory Library	Kore Arpeggiator, Massive
Reed Instruments		Latin/Tro-Cuban	Kore 2.0 Factory Library	Kore Filterbank, Kore Harmonic Shaper, Massive
Bass		Rock	Kore 2.0 Factory Library	Kore Cabinet Saturator, Kore Harmonic Shaper, Reaktor5
Bowed Strings		Pop	Kore 2.0 Factory Library	Kore Harmonic Shaper, Kore Pattern Delay, Reaktor5
Vocal		Jazz	Kore 2.0 Factory Library	Kore Harmonic Shaper, Kore Pattern Delay, Reaktor5
Soundshapes		Folk/Country	Kore 2.0 Factory Library	FMB
Sound Effects		Ethnic/World	Kore 2.0 Factory Library	FMB



Activate the Browser with a click on the dedicated Browser button on KORE 2's Global Header. It always appears at the bottom of the interface and its size can be altered with a handle. You can maximize the Browser by hiding the Sound Matrix or SOUND MANAGER from the UPPER PANE. A detailed rundown on the BROWSER's functionality can be found in chapter 3.7.

The BROWSER is your tool for searching, finding, loading, tagging and saving KoreSounds. It can be switched to display different views in the KoreSound database, e.g. only showing instrumental sounds or only effects, or direct browsing of plug-ins. You can customize its appearance to suit your needs by showing or hiding columns or sorting your search hits in different ways.

3.2.6 Info Pane

 Sound Matrix: Drop Sounds from the browser here, or right-click to create a new channel.

By activating the INFO PANE, which appears at the very bottom of the interface, you are kept informed about the functions of the various interface elements in KORE 2. Just hover with your mouse over an element you are interested in, and the INFO PANE will show an explanation. You can change the info Pane's language settings within the Options dialog along with the application's menu language.



You can switch the INFO PANE's language within the OPTIONS dialog, together with the application's menu language.

3.3 Global controls

Some parts of KORE 2's interface are of a global nature and independent of the KoreSounds that currently sit in the **SOUND MATRIX**.

These are, for example, the stand-alone version's application menu, the **GLOBAL PLUG-IN MENU** of the plug-in, the **GLOBAL HEADER** with its **VIEW** buttons, the **TRANSPORT AREA**, and so on.

The following sections deal with these global controls in detail.

3.3.1 Stand-alone menu

In stand-alone mode, i.e. when KORE 2 is not running as a plug-in in a host environment, there are some additional menus that you won't find in the plug-in.

In this manual we show the PC versions. On a Mac the menus look a tad different but contain the same set of commands.

The File Menu

The **FILE MENU** provides functions to create, load, and save Performances and KoreSounds:

- ▶ *New Performance* creates an empty Performance.
- ▶ *Open Performance* opens a dialog, letting you navigate your file system to choose and load a Performance File (.kpe)."
- ▶ *Save Performance* writes the current Performance to disk. If it has been saved previously, the new version overwrites the old one. If it is a previously unsaved Performance, KORE 2 presents a dialog to choose the new Performance File's location and name.



The **INFO PANE** is activated via a dedicated button on the **GLOBAL HEADER** of KORE 2.



The items of this menu that apply to the KORE plug-in, can be found on the **Global Plug-in Menu** of the plug-in.

- ▶ *Save Performance As...* is for writing the Performance to disk with a new name, and to a location of your choice.
- ▶ *Save Performance As Sound...* “converts” the current Performance to a KORE 2 MultiSound. The BROWSER will come up in Save mode, you can edit the META INFORMATION, tag it with ATTRIBUTES and save it into the database. Please read chapter 3.7 for details about the BROWSER and about saving KoreSounds.
- ▶ *Load Sound...* opens a dialog for loading a single KoreSound from your file system. This can of course be a Multi Sound or a SingleSound.
- ▶ *Recent Performances* presents a list of the most recently opened files, making it easy to return to files used in recent projects.
- ▶ *Options...* opens KORE 2’s maintenance pages. The OPTIONS consist of for tabs dealing with the database, plug-ins and the configuration of your KORE 2 Controller and they are explained in chapter 3.3.5.
- ▶ Please have a look at the separate NATIVE INSTRUMENTS Setup Guide for details about the *Audio and MIDI Settings* for your system.
- ▶ If *External MIDI Sync* is activated, KORE 2 listens on the configured MIDI ports for a MIDI clock stream. If there is one, KORE 2’s Central Clock runs synchronously to the incoming clock – it runs as a clock slave. Use this to synchronize KORE 2 to other application running on your computer or to external hardware that is producing MIDI clock signals.
- ▶ *Exit* closes stand-alone KORE 2.
- ▶

The Edit Menu

The EDIT MENU comes with a handy undo system. Please note the keyboard shortcuts (written out on the menu) for the different commands.

- ▶ *Undo* rolls back your work to the previous step. If you accidentally deleted a channel or simply decide that you would like to do something differently, use *Undo* to return the state before your most recent command. There is an unlimited number of undo steps. The keyboard shortcut is Ctrl+z.
- ▶ *Redo* returns your work to the state it was in before issuing an UNDO command. The keyboard shortcut is Ctrl+y.
- ▶ *Find* opens the BROWSER with the focus on the QUICK SEARCH field. The keyboard shortcut is Ctrl+f.
- ▶ *Pre-Listen* activates the PRE-LISTEN mode (see chapter 3.7). The keyboard shortcut is Ctrl+p.

The View Menu

The VIEW MENU of the stand-alone simply mirrors the VIEW buttons of the GLOBAL HEADER. See chapter 3.3.3 for details. Try to memorize the keyboard shortcuts for the different views. They can make you navigate KORE 2 a lot quicker.

The Help Menu

The entries of the HELP MENU get you up and running if KORE 2's internal help system (the INFO PANE) doesn't cut it for you. It also contains some items dealing with authorization and version information.

Launch Service Center... does exactly what it says. It starts the NATIVE INSTRUMENTS Service Center where you can authorize your NATIVE INSTRUMENTS products and review the status of our licenses. Please refer to the separate documentation for more details.

- ▶ *Open Manual* opens the PDF version of this manual from your hard disk.
- ▶ *Visit KORE 2 on the web* opens your default web browser pointing you to the KORE 2 pages of the NATIVE INSTRUMENTS website where you find a host of additional information and content to enhance you KORE 2 experience. The KORE 2 User Forum on the NATIVE INSTRUMENTS web site keeps you up to speed with the latest developments in KORE 2. You can discuss all matters KORE 2 within an active community of fellow users. The KORE 2 website also includes free tutorials, special KORE 2 events that might be of interest and information about well-known artists using KORE 2.
- ▶ *About...* opens the About Screen which displays the Version number and installation type of your KORE 2 installation. Here you also find the names of all the people involved in the creation of KORE 2.

3.3.2 Global Plug-in Menu

As the KORE 2 plug-in is no independent application it lacks the menus of the stand-alone. However, there are some commands in those menus that are also applicable to the plug-in. That's why you get a GLOBAL PLUG-IN MENU on the GLOBAL HEADER when using KORE 2 as a plug-in in a host environment.

The GLOBAL PLUG-IN MENU of the plug-in combines some commands you find on the FILE and VIEW menus of the stand-alone:

- ▶ *New Performance* creates an empty Performance.
- ▶ *Open Performance* opens a dialog, letting you navigate through your file system to choose and load a Performance File (.kpe).
- ▶ *Save Performance* writes the current Performance to disk. If it has been saved previously, the new version overwrites the old one. If it is a previously unsaved Performance, KORE 2 presents a dialog to choose the new Performance File's location and name.
- ▶ *Save Performance As...* is for writing the Performance to disk with a new name, and to a location of your choice.
- ▶ *Save Performance As Sound...* “converts” the current Performance to a KORE 2 MultiSound. The Browser will come up in Save mode, you can edit the Meta Information, tag it with ATTRIBUTES and save it into the database. Please read chapter 3.7 for details about the BROWSER and about saving KoreSounds.
- ▶ When *Auto Compact Window* is activated, KORE 2 automatically resizes its plug-in window depending on the elements displayed. For instance, opening the Browser with the BROWSER button in the GLOBAL HEADER will increase the window size instead of hiding other elements. You can specify the maximum window height within the Options dialog.
- ▶ With the command *Options* you open KORE 2's preferences window. Please read chapter 3.3.5 below to learn more about the OPTIONS.

When using KORE 2 as a plug-in, multiple instances of KORE 2 can be active simultaneously – one for each channel of the host application, for example. You can identify each instance of KORE 2 by its individual number shown in the GLOBAL HEADER.

3.3.3 Global Header



The top-most strip of controls is called the GLOBAL HEADER. It is used for switching around KORE 2's interface to fit the situation at hand and provides access to some global functions that are independent of the respective KoreSounds in the Performance.

It holds the following controls:

- ▶ The KORE 2 LOGO (and the NATIVE INSTRUMENTS logo to the far right), when clicked, opens the ABOUT SCREEN. This displays the version number and installation type of your KORE 2 installation. Here you also find the names of all the people involved in the creation of KORE 2.
- ▶ The GLOBAL CONTROLLER switch toggles the display of KORE 2's GLOBAL CONTROLLER on the UPPER PANE on and off. The keyboard shortcut for this command is F1.
- ▶ The EDIT AREA switch displays the SOUND MATRIX on the UPPER PANE. This can only be visible alternatively to the SOUND MANAGER. Use F2 on your computer keyboard as a shortcut.



To assign the KORE 2 Controller to any instance, click into the area beside the instance number. Refer to chapter 3.9.1 for information on how to change the hardware focus with the KORE 2 Controller itself.

- ▶ The **SOUND MANAGER** switch invokes the **SOUND MANAGER** on the **UPPER PANE**, providing control over keyboard mappings of Performances and Sounds and the management of **CONTROL PAGES** for automation. This can only be visible alternatively to the **SOUND MATRIX**. This command can also be invoked with the **F3** key on your computer keyboard.
- ▶ The **BROWSER** switch opens the **BROWSER** in the **LOWER PANE** of **KORE 2**'s interface. Mine the **KORE 2 Library** for Sounds, effects, Performances, MIDI-files and plug-ins. The keyboard shortcut is **F3**.
- ▶ The **INFO PANE** button opens the **INFO PANE** at the bottom of the application window. If you hover with your mouse cursor over any element of **KORE 2**, the **INFO PANE** will show you a short explanation of that feature. The keyboard shortcut for the **INFO PANE** is **F8**.

You will quickly learn how valuable the **VIEW** buttons are when managing screen real-estate. Working with **KORE 2** in a host environment poses limitations in terms of space and with the different views you will always come up with the perfect configuration by activating needed components and hiding the stuff you don't need. One thing to mention is the context-sensitivity of the **UPPER PANE**. If the **BROWSER** is closed, you always have the **EDIT AREA** or the **SOUND MANAGER** open. When the **BROWSER** is opened you can hide the **EDIT AREA** or **SOUND MANAGER**, respectively, by clicking on the respective **VIEW** button. This leaves you with a maximized **BROWSER** for working with the database.



If the **Browser** is displayed, you can completely hide the **Sound Manager** or **Sound Matrix**, respectively, for maximizing the **Browser**.

The Transport Area

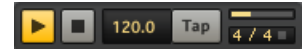
The next part of the GLOBAL CONTROLS contains the TRANSPORT AREA. If not synchronized via an external MIDI clock (see FILE MENU of the stand-alone) or running as a plug-in in a host environment, KORE 2 produces its own timing information that gets propagated to the KoreSounds for synchronization and control of sequencers, arpeggiators or any time-dependent parameters.

The clock does not only control the tempo but also has facilities for defining the measure and keeps track of the position in the current bar. This can be nice when dealing with step sequencers, as the bar position is an important thing when it comes to resets for sequences of different lengths.

When running as a plug-in, all things time are controlled by the host clock of the sequencer. That's why the plug-in lacks the TRANSPORT AREA.

The TRANSPORT AREA sports the following elements:

- ▶ **STOP** (the square button) stops the central clock and resets it to beat one of the bar. The KORE 2 Controller STOP button duplicates this function. Use Ctrl+Space as keyboard shortcut (Mac: command-space).
- ▶ **PLAY** (the arrow button) starts KORE 2's central timing clock. It is also the master control for starting any MIDI-plug-ins sitting in CHANNEL INSERTS. This button works as a toggle; the first click starts the clock, the next stops it. Hitting it again continues at the last bar position. The Play hardware button on your KORE 2 Controller provides the same function. Use the space bar as a keyboard shortcut.
- ▶ **TEMPO EDIT** shows the current tempo in beats per minute (BPM). You can change the tempo by clicking the value and dragging with your mouse, or double-clicking on it and typing in a new value.



- ▶ TAP provides another convenient way to define the tempo; just click on this button in quarter beats. KORE 2 averages the frequency of your clicks, and uses this to derive a tempo. Please note that you can assign the Tap button to a USER PAGE, like any other button in KORE 2.
- ▶ The MEASURE EDIT shows the current measure of KORE 2's clock in measures and beats. You can change the measure by clicking in the values and dragging your mouse up or down. The MEASURE EDIT sports an integrated BAR DISPLAY, displaying the current position in the measure with a resolution of one beat. Directly to the right of the BAR DISPLAY you find the BEAT INDICATOR, flashing at every beat.

When using a MIDI PLAYER (see chapter 3.8.34) the central clock has to run for the player to play the MIDI file. This is not the case for STEP SEQUENCERS or ARPEGGIATOR, as they can also be triggered by note events.

The Activity Area

The ACTIVITY AREA holds some informational displays and two buttons:

- ▶ The Value Display always displays the name, value and unit for the parameter you are altering, no matter if you do it with your mouse or via the KORE 2 Controller hardware.
- ▶ Watch the CPU USAGE DISPLAY and always be informed about the load your KORE 2 performance imposes on your processor.
- ▶ The MIDI ACTIVITY LED displays the data density of all incoming MIDI channel messages. (channel messages are all MIDI messages that can be directed to a single MIDI channel; this excludes, for example, system exclusive messages and clock messages).



- ▶ The MIDI PANIC button (the exclamation mark) sends an “all notes off” message to all plug-ins, which turns off any “stuck” notes and often solves other MIDI quirks. Furthermore, it resets KORE 2’s audio engine. Use this if you are experiencing quirky note behavior or if you “overloaded” a KoreSound with MIDI data. The keyboard shortcut for this command is the 0 on your numeric pad.

3.3.4 Global Controller



The GLOBAL CONTROLLER is your one-stop interface to the CONTROL PAGE system in KORE 2. There is a dedicated chapter about controlling KoreSounds in this manual (chapter 3.5). The GLOBAL CONTROLLER also mirrors the status of your KORE 2 Controller in terms of displayed Pages and parameter values. Toggle display of the GLOBAL CONTROLLER on or off via the dedicated button on the GLOBAL HEADER (see chapter 3.2.1). It is always displayed in the upper-most region of the UPPER PANE.

With an inactive LOCK button the GLOBAL CONTROLLER is context sensitive. This means that it displays control elements related to the KORE 2 component in focus. You can set the focus with your mouse by clicking on a CHANNEL INSERT that holds a sound or a plug-in.

- ▶ If the USER PAGE button is active, the displayed Pages can be USER PAGES of the Performance or of any Single or Multi Sound currently focused in the SOUND MATRIX.
- ▶ If you have selected a MultiSound in the SOUND MATRIX, you can display its CHANNEL PAGES by activating the CHANNEL PAGE button on the GLOBAL CONTROLLER.
- ▶ The same goes for a focus on a channel (click its CHANNEL HEADER to select it).
- ▶ When there is a Single Sound currently selected in the SOUND MATRIX, the CHANNEL PAGE button is replaced by the PLUG-IN PAGE button which provides access to the PLUG-IN PAGES of the Single Sound.

To rephrase it: When the LOCK button is inactive, the Global Controller always provides access to the CONTROL PAGES of the Performance, or the currently selected Multi Sound or Single Sound (which can be an Instrument, an audio effect or even a MIDI effect).

At any time you can hit the LOCK button to keep the currently focused slot on the Controller. This is also depicted by a Lock Icon on the focused component on the SOUND MATRIX. With an active LOCK button you can still navigate all available Pages via your KORE 2 Controller.

If you want to know more about CONTROL PAGES and how to create and manage them, refer to the dedicated section further down the text (chapter 3.5). There you will also learn about the DISPLAY, ASSIGN and EDIT tabs, and the SOUND VARIATIONS.



You can also focus KORE components via your KORE Controller

3.3.5 Options

General Options

On the GENERAL OPTIONS tab you find the entry RELOAD LAST PERFORMANCE AT STARTUP. It toggles KORE 2's starting behavior. If checked, the Performance you had open the last time when you closed the application automatically comes up again. If this option is off, KORE 2 starts with an empty Performance. KORE 2's INFO PANE is available in a variety of languages.

You can change the language in the LANGUAGE menu. The setting *Automatic* chooses the language according to the setting of your operating system. Please note that it is necessary to restart KORE 2 for the change to take effect.

When you are using KORE 2 as a plug-in, there is another option displayed: The MAXIMUM PLUG-IN HEIGHT value specifies to which degree the Auto Compact Mode can resize the plug-in window according to the elements displayed. This value prevents that the KORE 2 window grows larger than your screen. Refer to chapter 3.3.2 for information on how to enable the Auto Compact Mode.

By clicking OK you acknowledge any changes you made and the options window closes.

Database Options

The database maintenance commands are for managing the contents of the KoreSound database and for integrating any additional content in to KORE 2.

Any content you generate yourself by using KORE 2 will be saved in sub-folders of the NATIVE INSTRUMENTS SHARED CONTENT folder. It is located in a folder on your file system called the STANDARD USER PATH. Normally you don't have to change its location. If, however, the configuration of your file system demands a different location, you can change it by clicking the SET button. A dialog window will pop up for you to navigate to a different folder on your file system. Please note that this will not move the files you placed within the old location, it only changes the place KORE 2 looks for it.

KORE 2 automatically splits up the different content-types into dedicated folders for Performances, Sounds and MIDI Files. The folders for this content are sub-folders of the STANDARD USER PATH. The CONTENT TYPE tabs are for selecting the type of content from the PATHS LIST. You can choose between PERFORMANCES, SOUNDS and MIDI FILES. The USER SOUNDS FOLDER field is just for your reference. Click on the three tabs to see where the default locations for the KORE 2 content are.

However, you can define additional folders on your file system to be monitored by KORE 2. Any content placed there, will be automatically added to the database when a Rescan (see below) is initiated. These folders are listed as ADDITIONAL FOLDERS.

By clicking Add you open a dialog window for navigating to the folder on your file system, which you want to add to the list of monitored folders. DELETE removes the currently selected entry from the list. The two buttons below the STANDARD USER PATH provide means for database maintenance:

- ▶ SCAN USER FOLDERS looks for new KoreSounds and integrates them into the database. Use this if you moved KoreSounds into your USER SOUNDS FOLDERS.



The Rescan of single User Sound Folders can also be triggered via navigating them in **Path view with the Browser**. See chapter 3.7 for more.

- ▶ **FULL SCAN** completely re-reads all available KoreSounds on your system and rebuilds the database accordingly. This also rescans the complete factory content and is only necessary if you have installed new **NATIVE INSTRUMENTS** products.
- ▶ When you activate the option **HIDE UNAVAILABLE SOUNDS**, sounds from missing plug-ins will not be displayed. If this option is unchecked, you will see the unavailable sounds but they will be greyed out and you will not be able to open them. For more information please refer to chapter 3.1.2 (“Important Concepts”) where the relationship between KoreSounds and plug-ins is explained.

By clicking OK you acknowledge any changes you made and close the options window.

Plug-ins Options

The Plug-ins section offers several options regarding the handling of your VST- and/or AU-plug-ins. This screen varies for PCs and Macs, mainly because Macs support Audio Unit plug-ins, and allocate them differently in the file system. On a PC it looks as follows:

- ▶ If **ENABLE PLUG-IN SCAN AT STARTUP** is active, KORE 2 will scan the content of your plug-in folder for new additions every time it starts.
- ▶ **UPDATE PLUG-INS** does the same but KORE 2 has to be started manually. Use this if you have just installed a new product, which you want to KORE 2 to recognise.
- ▶ **RESCAN PLUG-INS** completely re-scans the plug-in folder. Use this function if you have made major changes to your plug-in content.

- ▶ In the `PATH` field you will find the path to the folder on your system containing the VST-plugin-ins. Click on the `SET` button to open a file dialog window. In this dialog you can navigate to a different folder to set it as your new `PlugIn` directory. Of course you can also type the path directly into the `Path` field. For example, `C:/Steinberg/VSTPlugs` is a likely path on PCs.

On a Mac the Plug-ins options look a little different. Here the options are:

- ▶ If `ENABLE PLUG-IN SCAN AT STARTUP` is active, `KORE 2` will scan the content of your `PlugIn` folder for additions every time it starts
- ▶ `VALIDATE PLUG-INS DURING SCAN` will run a technical check for every scanned plug-in to ensure proper functioning.
- ▶ If checked, the command `IGNORE BUILT-IN AUDIOUNITS` discards the plug-ins that come with your Apple Mac OS X installation.
- ▶ The `IGNORE SYSTEM VSTs` command should be used if you only want to work with `AudioUnits`. Note that `KoreSounds` using `AUs` will not work on PCs.
- ▶ `IGNORE SYSTEM AUS` works the other way around: All `AudioUnit` plug-ins will be ignored. This assures full cross-platform compatibility for your sound design.

The `RESCAN` and `UPDATE` button works as described for the PC options.

Hardware Options

The Hardware Options screen mirrors the parameters from the KORE 2 Controller's Options Menu.

- ▶ **TOUCH SENSITIVITY** allows you to adjust the sensitivity of the eight touch-sensitive knobs. If set to zero the touch sensor is inactive.
- ▶ **SMOOTHING** integrates (from a mathematical standpoint) the data created by knob movements for a “smoother” feel.
- ▶ **CONTRAST** sets the ratio of light to dark in the display to compensate for different lighting conditions.
- ▶ **BACKLIGHT** controls the display's brightness.
- ▶ **REFRESH RATE** determines how often the state of the LEDs and the display's contents are updated.
- ▶ **INVERT DISPLAY** changes the default red on black lettering to black lettering on a red background.
- ▶ **LED BRIGHTNESS LOW** adjusts the brightness of the LED ring around the knobs for the off/untouched state. Note that for unassigned or deactivated controls the LED is switched off completely.
- ▶ **LED BRIGHTNESS HIGH** is the corresponding brightness control for the on/touched state of the controls.
- ▶ The **PEDAL RECALIBRATE** command is for calibrating any connected pedals (see below).

Calibration of pedals

If you get the feeling that your connected pedals start to act funny, use the **RECALIBRATE** command from the hardware options.

Hit the RECALIBRATE button and move the pedals through their complete range once or twice. KORE 2 will automatically adapt itself to the pedal inputs and everything should be smooth again.

3.4 Edit Area: Routing signals



This is a KoreSound with three mixer levels.

The EDIT AREA of KORE 2 is where sound is assembled, mixed and routed. You can think of it as a hierarchically nested mixer structure for audio and MIDI signals.

It provides a roster of CHANNEL INSERTS (the slots) that hold the building blocks of the KORE 2 Performance. These CHANNEL INSERTS form the SOUND MATRIX.

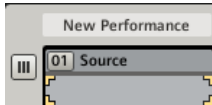
Please note, that the concept of a Performance is a rather artificial one, as you can at any time convert a Performance to a normal KoreSound (use the *Save Performance as Sound...* command from the FILE MENU). Any CHANNEL INSERT can hold a complete MultiSound again containing another hierarchical mixer structure.

Performances differ from MultiSounds only in that they contain additional information, e.g. that they connect to physical in- and outputs and store the tempo of KORE 2's global clock.

3.4.1 Components and views of the Edit Area

Channels and Channel Inserts

Each level of the EDIT AREA is composed of a row of channels. Per default the top level always has a MASTER CHANNEL, which is displayed on the far right of the SOUND MATRIX. The MASTER CHANNEL is nothing else but a GROUP CHANNEL with master function that sums all the signals in the mixer. If you don't need it on the top level, you can change the channel type of the MASTER CHANNEL to something else and it will lose its function as a MASTER CHANNEL. See the next chapter for more on channel types and signal flow.



A growing channel.

When you create a new sound, the SOUND MATRIX will only show a single row of CHANNEL INSERTS. As soon as you fill one of them, another row of Inserts will appear. You can pack as many components into a channel as your computer can handle.

A channel displays its type on the CHANNEL HEADER and the CHANNEL INSERTS display the names of the component residing inside them. The type of the components is depicted by various symbols. If you ever see the following symbol on your SOUND MATRIX it means KORE 2 is having problems in finding or loading a plug-in:

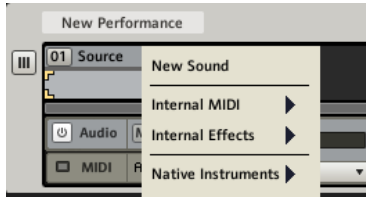
Have a look if the plug-in has been moved on your file system or – if all fails – re-install the offending plug-in.



01 Source	02 Group	03 Group	04 Input
Aluminium	FX Modulation Delay	FX Space Reverb	Moving Metal B..
FX Graphic EQ	FX Freq Shifter	Two Hard Ways	FX Filterbank

Four channels on the SOUND MATRIX.

Each channel holds a stack of CHANNEL INSERTS that can be populated with SingleSounds, MultiSounds, VST/AU-plugin-ins (AU plug-ins are only available on Macs) or MIDI-plugin-ins.



This is the context menu of an empty CHANNEL INSERT.

The empty CHANNEL INSERTS can be filled via drag-and-drop from the BROWSER (more about the BROWSER in Chapter 3.7) or from your file system, or by right-clicking and working with the resulting context menu. An empty CHANNEL INSERT's context menu displays three sections:

- ▶ *New Sound* creates a new, empty *KoreSound* with its own *SOUND MATRIX*.
- ▶ The second section contains the *INTERNAL MODULES* of *KORE 2*, namely the internal MIDI modules and the audio FX.
- ▶ In the third and lowest section you see a list of vendors for all installed VST/AU-plugin-ins. Click here to open sub-menus containing the plug-ins.

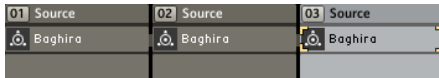


For populated CHANNEL INSERTS the context menu offers more choices.

If the CHANNEL INSERT is already occupied, the context menu looks a little different:

- ▶ *Replace* provides access to the components menu tree to replace the module or plug-in residing in the CHANNEL INSERT with a different one.
- ▶ For SingleSounds *Edit* will open the SOUND HEADER of the respective sound below the SOUND MATRIX
- ▶ For MultiSounds *Edit* opens its level of the SOUND MATRIX to display the channels of the MultiSound.
- ▶ *Save* puts the browser into save mode allowing you to set ATTRIBUTES and save the sound to the user sound path.
- ▶ *Delete* removes the currently focused module from the CHANNEL INSERT.

- ▶ *Bypass* removes the respective component from the signal path. This is called `SOUND BYPASS` in contrast to the `CHANNEL BYPASS` described below.
- ▶ The *Open Plug-in Window* command opens the interface of the respective component. It is equivalent to a double-click. This is not available for MultiSounds, as they can have multiple, nested plug-ins.
- ▶ *Import Plug-in Presets* opens a system file dialog for navigating to a presets folder where KORE 2 saves the imported KoreSounds. KORE 2 then loads all presets of the selected plug-in and saves them. After this batch process, all new KoreSounds are selected and Edit Mode is opened, so you can assign any attribute to all the sounds. Click on `DONE`, when you are finished. By default KORE 2 offers you to create the folder in the `USER SOUNDS` path. Change this, if you must.
- ▶ *Add Extra Output* is only available for plug-ins that provide several stereo outputs: Please read your plug-in's manual for more information on how to address these outputs inside the plug-in. For each additional stereo output of your plug-in, you can create a linked `CHANNEL INSERT` in an adjacent channel, as seen in the illustration below. All inserts link to the same plug-in, however you can now process each stereo output individually. Use the `CHANNEL INSERT`'s context menu to remove the additional output again.



The contents of the CHANNEL INSERTS can be moved around on the SOUND MATRIX. Just use your mouse to drag a component to another CHANNEL INSERT anywhere on the SOUND MATRIX. You can:

- ▶ Replace the existing component by dropping the moved one directly on the CHANNEL INSERT. The target-insert is depicted with a yellow bar.
- ▶ Insert the moved component between or above the already populated CHANNEL INSERTS by dropping it on the dividing line between the Inserts. The target spot is displayed with two yellow lines.

The same applies to changing channel positions, except that you can't replace existing ones. Take a channel by its CHANNEL HEADER and move it to its new place in the SOUND MATRIX. Again, the target is depicted by yellow lines. Rename channels by double-clicking their CHANNEL HEADER and type in a new name via the keyboard of your computer. The CHANNEL NUMBER shown on the CHANNEL HEADER, also mirrors the function of the CHANNEL ON/OFF switch on the AUDIO TAB (see below). Click it and it will bypass the complete channel. A bypassed channel is depicted with a yellow cross in its header.

The Channel Views

A SOUND MATRIX level can switch between two different views. These can be toggled via the MIXER VIEW button to the left of the CHANNEL INSERTS of the leftmost channel.



The MIXER VIEW showing the CHANNEL INSERTS, the PAN knob, CHANNEL SOLO and CHANNEL MUTE buttons, the OUTPUT LEVEL Meter and an optional INPUT and Aux output section.



The Channel View, showing the Channel Inserts and the Audio and MIDI tabs.



Click on the the **INPUTS** button below the **MIXER VIEW** button to see the **INPUT** section in **MIXER VIEW**. The same applies to the **AUX OUTPUTS** button for displaying the output section.

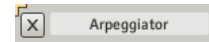
Viewing Channel Insert content

A click or double-click on an occupied **CHANNEL INSERT** both have different outcomes depending on the **KoreSound** it holds:

- ▶ In the case of a **SingleSound**, a single-click displays the interface of the sound. Depending on the content of the **SingleSound** a double-click opens the floating interface of the **VST/AU-plug-in** or the interface of an internal **KORE 2 Module** which appears on the **EDIT AREA**.

- ▶ With MultiSounds, single-clicks recall the last display state of the MultiSound: closed or opened. A MutliSound is opened with a double-click.

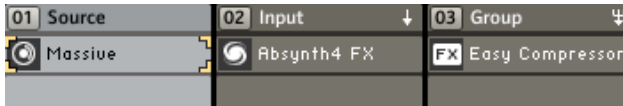
You can always close the component you recently opened by using the CLOSE button on the SIDEBAR:



3.4.2 Channel types and signal routing

Signals – be they audio or MIDI – flow in the Matrix from top to bottom elements, from the higher SOUND MATRIX level to the lower and from the higher to the lower channel Insert. Via the Aux sends, audio signals can also flow horizontally within one SOUND MATRIX level.

Channel Types



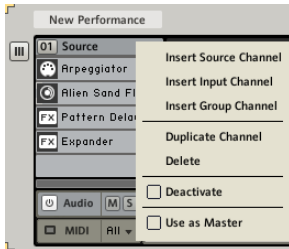
KORE 2 Channels are flexible things. Although there is such a thing as channel types, any channel can at any time change its type by definition of a different INPUT SOURCE for the channel. This is done via the INPUT SOURCE menu on the AUDIO TAB (see next section).

There are three different channel types available:

- ▶ SOURCE CHANNELS hold sounds without signal inputs (NONE on the Source menu).

- ▶ INPUT CHANNELS are for audio input from external hardware or parental SOUND MATRIX levels (INPUT 1 – x or SOUND INPUT on the Source menu).
- ▶ GROUP CHANNELS are for summing and processing the output of Channels of the same SOUND MATRIX level (GROUP BUS on the Source Menu).

INPUT CHANNELS and GROUP CHANNELS display a special symbol in their CHANNEL HEADER (see the picture above).



You can create new channels of any type by using the *Insert Channel* commands on the context menu. You can also *Duplicate* a channel with all its content and settings and, of course, *Delete* channels from the SOUND MATRIX.

The entry *Deactivate* does the same as a click on the CHANNEL NUMBER: it bypasses the channel and takes it out of the processing loop, saving CPU cycles. Bypassing channels can be automated and mapped to the KORE 2 Controller. This function allows quick management of KORE 2's CPU load.



The channel Mute function described later in this section just mutes the channel but does not take it out of the processing loop.

Use as Master is explained next:

The MASTER CHANNEL is a bit special. Although it is basically nothing more than a GROUP CHANNEL, it behaves slightly differently. There can be one MASTER CHANNEL per SOUND MATRIX level. By default, the top level always has a MASTER CHANNEL if a new sound is created. This can be adjusted to your liking via the context sensitive Channel menu. Click on the Channel Header to invoke it and choose USE AS MASTER if you want to transform an existing Channel into the Master. The Master Channel is the default routing destination for newly created Channels of the respective SOUND MATRIX level and it is always visible, even if the SOUND MATRIX area is fully occupied and you have to scroll to see all non-master Channels. Using the two Tabs you can access the parameters related to audio- and MIDI-routing. The displayed tabs always relate to the Channel currently in focus. If the MIDI Tab is visible, click on “Audio” to switch over to the controls of the Audio Tab.



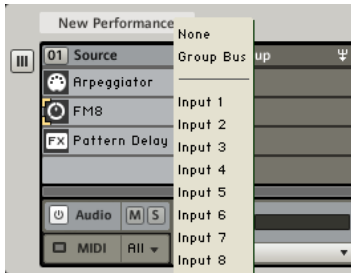
The Audio Tab



The Audio and MIDI tabs of the Sound Matrix.

The first element of the Audio Tab is the CHANNEL ON/OFF switch. Use it to deactivate audio processing for the Channel. This will also take the respective load from your CPU.

The SOLO button switches the channel to solo mode. This mutes all other channels, so only the soloed channel is audible. The MUTE button silences the channel. Please be aware, that signal processing still affects a muted channel and will put the same load on your CPU as if not muted. To the right you find the INPUT GAIN knob for leveling out incoming signals. It ranges from -40 dB to 40 dB and comes in very handy for avoiding clippings inside of your sound structures. The current level of the input signal is displayed by the INPUT LEVEL METER and you can choose the INPUT SOURCE via a dedicated menu below.



The INPUT SOURCE Menu of a top-level SOURCE CHANNEL.

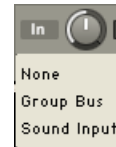
When the channel sits on the top SOUND MATRIX level, you can either choose *None*, for no input, *Group Bus*, for input from possible GROUP CHANNELS (read on for more on this) or you can use the inputs of your audio hardware that are presented as *numbered inputs*.

If the channel is part of a lower SOUND MATRIX level, the INPUT MENU looks slightly different. The first two items are the same as the top level. However, you don't gain access to your hardware inputs. Instead, you can choose *Sound Input*, which is the signals coming from the parental SOUND MATRIX level.

Please note that if you do not choose Sound Input from the INPUT MENU the channel cannot receive audio from its parental SOUND MATRIX level.

Next on the AUDIO TAB you find the OUTPUT section.

The OUTPUT DESTINATION menu defines where the audio signals of the respective channels will be sent. On the top level of the SOUND MATRIX, you can choose between:



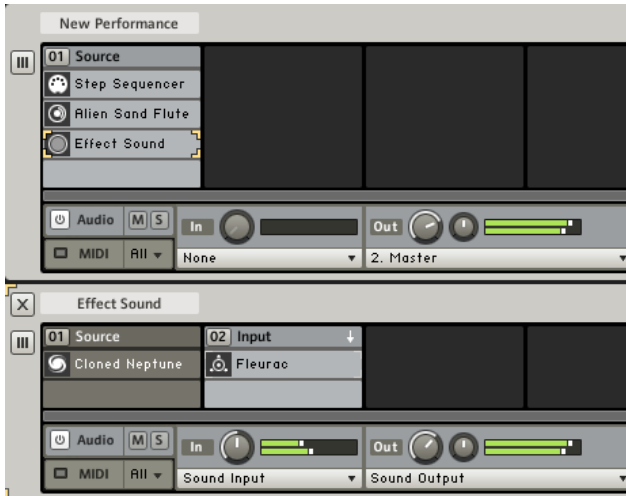
This is the Input Menu of a channel sitting on a lower sound Matrix Level.



This is the Output section of a top level Mixer.

- ▶ *None*, meaning no output.
- ▶ *Master*, which routes the signal to the MASTER CHANNEL of the respective SOUND MATRIX level, should there be one. The number in front of the entry refers to the number of channels on that SOUND MATRIX level.
- ▶ The *numbered outputs* of your audio hardware.

For channels sitting on lower levels of the SOUND MATRIX, the OUTPUT MENU doesn't provide the possibility to select an output destination to the audio hardware. Instead, use the menu entry SOUND OUTPUT, which allows you to route the output to the sum of the respective SOUND MATRIX level.



The top level receives the external input which is routed into two channels on the next level.

If you want to route external input to channels of lower hierarchy levels, you have to use the top level to get the audio signal from your hardware and channel it to the lower mixer Level.

The basic audio signal flow is as follows:

- Signals run through the SOUND MATRIX from top to bottom. Each lower level can receive its input from the parent mixer in the hierarchy, if it has channels with active inputs.

- ▶ The output of each mixer level is summed and is routed back up to the next higher mixer level. Note that every mixer level can have its own **MASTER CHANNEL** for controlling the “horizontal” sum of its channels.
- ▶ By using the **Aux sends** of a mixer level, signals can also be distributed horizontally within that mixer level.
- ▶ External audio inputs can only be received on the highest level of the structure. They also propagate down the mixer structure, if the **CHANNEL INSERTS** they pass provide the means for it (if there’s a sound without defined input sitting somewhere in a **CHANNEL INSERT** it will block the path for the external audio)
- ▶ As with audio signals, MIDI flows from higher **CHANNEL INSERTS** to lower ones.

The Aux System

KORE 2 offers a flexible system of auxiliary sends for routing audio signals between channels of the same **SOUND MATRIX** level. You find the auxiliary sends to the right of the channel’s **OUTPUT** section. By default you have six **Aux sends** per channel that route the signals to possible other channels within the same **SOUND MATRIX** volume. But it doesn’t end there. If you have set up all available routings, KORE 2 automatically creates an additional auxiliary send for you, so you never run out of routing possibilities.

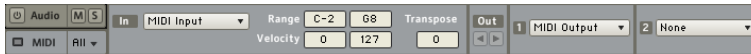
The **Aux SCROLL** in front of the Sends is for browsing through the Aux sends when there are more than six in use.

The logic behind the signal routing is as follows:

- ▶ Every channel has its own set of sends.

- ▶ Every channel can be switched to receive audio signals via the Aux sends by choosing **GROUP BUS** as its **INPUT SOURCE**.
- ▶ Use the **AUXILIARY DESTINATION** menu to select a group destination. In front of the Group bus entries, you can view the channel numbers of the available **GROUP CHANNELS**.
- ▶ If there is no other channel on the respective **SOUND MATRIX** level or there is none that has the bus as its input, the only routing option is the **OUTPUT** to the next higher level of the **SOUND MATRIX**.
- ▶ If there is any other channel on that level with the Group Bus defined as its Input you can choose it from the menu and the new routing is established.
- ▶ Choosing *Remove* from the menu deletes the output assignment. All other Sends sitting to the right are moved one step to the left.

The MIDI Tab



The MIDI Tab of a Sound Matrix Level.

The MIDI TAB focuses on receiving and routing MIDI signals flowing through KORE 2's SOUND MATRIX. Every channel has its own MIDI TAB and the Tab of the channel currently in focus is displayed. The AUDIO and MIDI TABS are displayed alternatively. Click on the word "MIDI" to display the controls of the MIDI Tab.

To the far left you will find the MIDI ACTIVITY LED, displaying any incoming MIDI data. Next comes the MIDI CHANNEL SELECT for choosing the MIDI channel, on which the Sound Matrix channel will receive its data. You can either specify a MIDI channel from 1 to 16 or choose ALL, to receive MIDI in omni mode.

Every channel has its own MIDI filter that can be used to restrict the note and velocity ranges for the channel. Click with your mouse and drag up or down to change the values of the HIGH AND LOW NOTE and VELOCITY FILTER. Everything between the two note- or velocity values is passed into the channel, everything outside those borders is discarded. These settings are identical with those of the CHANNEL MAPPING TAB of the SOUND MANAGER (see chapter 3.6.4) and are immediately reflected there.

You can use the PITCH TRANSPOSE Control to transpose incoming note messages semitone wise. The range is four octaves up or down.

MIDI routing

In addition to the fact that MIDI signals run vertically through KORE 2's SOUND MATRIX, you can also route the data horizontally between channels of the same SOUND MATRIX level. This is accomplished by the MIDI OUTPUTS you see to the right of the MIDI Filter. By default you have six MIDI OUTPUTS per channel that route the MIDI data into possible other channels. But it doesn't end there. If you have set up all available MIDI routings, KORE 2 automatically creates an additional Output for you, so you never run out of routing paths.

The OUTPUT SCROLL to the right of the MIDI Filter is for browsing through the MIDI Outputs, when there are more than six in use.

The logic behind the MIDI routing is very simple:

- ▶ Every channel has its own set of Outputs.
- ▶ Set all available MIDI targets via the OUTPUT menu.
- ▶ If there is no other channel on the respective SOUND MATRIX level the only routing option is the Output to the next lower level of the SOUND MATRIX.
- ▶ If there are any other channels that are not already assigned to an Output, you can choose them from the menu and the new routing is established.
- ▶ Choose *Remove* from the menu to delete the output assignment. All other MIDI Output sitting to the right are moved one step to the left.

3.4.3 Nesting sounds

The Nesting of Sounds lies in the nature of the SOUND MATRIX. Any CHANNEL INSERTS can hold any kind of KoreSound, no matter if it is a SingleSound or a MultiSound. Any CHANNEL INSERT can again hold an arbitrarily deep SOUND MATRIX structure in itself, leading to a nested structure of SOUND MATRIZES.

You can have a single channel with several CHANNEL INSERTS occupied by MultiSounds consisting of a set of KoreSounds that again consist of multiple components and so on. The only limits to this flexibility are the resources of your computer.

The SOUND MATRIX makes all this transparent and easy to use. Click on a Sound sitting in a CHANNEL INSERT and the adequate interface element will open below the current SOUND MATRIX level. If it is a SingleSound you will see

either a SOUND HEADER or the interface of an internal KORE 2 Module (audio effect or MIDI plug-in). If it is a MultiSound another SOUND MATRIX opens up and shows the SOUND MATRIX for the MultiSound you just focused.

3.4.4 Examples

As with any flexible system, there is always more than one way to handle a task. We'd like to give some examples of how everyday solutions can look and what the advantages and pitfalls of the different designs are.

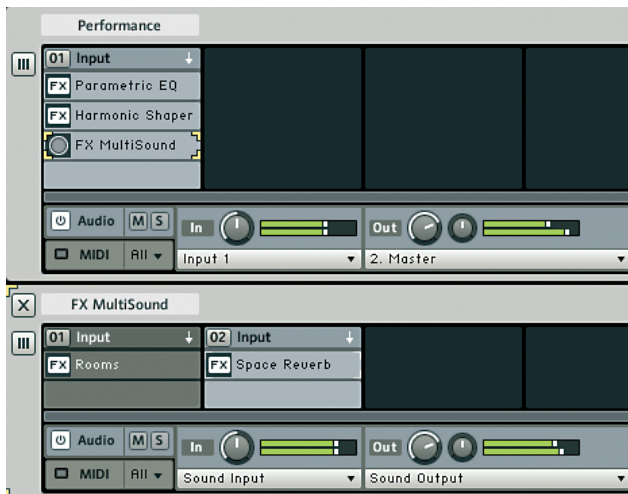
One source, multiple destinations

A standard case you will encounter is the need to route audio signals to several channels at once. There are two different approaches to do this. You can use KORE 2's system of auxiliary sends to distribute the signals within one and the same level of the SOUND MATRIX:



In the picture above you can see an INPUT CHANNEL receiving audio from external hardware and two GROUP CHANNELS with effects that independently receive their signal from the INPUT CHANNEL via its Aux sends. Note the AUX DESTINATIONS of the INPUT CHANNEL to the right. They are set to „2. Group” and „3. Group“, respectively, addressing the two GROUP CHANNELS.

This is a simple solution and perfectly suitable if this is all that your KORE 2 instance will be handling. If the setup exceeds this simple case, it may be better to put the effects processing taking place in the two GROUP CHANNELS into a separate MultiSound:



In the picture above we have inserted the two effects into a separate MultiSound that is nested inside the top-level channel. Both channels of the new sound are INPUT CHANNELS and receive their signals from the parental SOUND MATRIX level. By doing this, we can easily save the new sound as a separate entity that can be re-used at a later stage in a different context.



This is ideal for saving FX-chains as presets for use in other Sounds.

Also, it is easy to expand the top level of the SOUND MATRIX by adding more components without clutter.

MultiSounds as songs



The MultiSound concept is very convenient when it comes to structuring a live performance. Simply put all the stuff you need for a song into one MultiSound and the elements for the next track into the next MultiSound.

This has the advantage that you can take all but the current song out of the processing loop with the CHANNEL BYPASS function. Always remember that you can assign BYPASS to buttons of your KORE 2 Controller.

By using this technique you can contain many different MultiSounds within one Performance without overloading your CPU. Basically, your installed memory is the limit, here.

Morphing FX



The SOUND VARIATIONS provide an easy way for producing very smooth pseudo-morphing effects if applied to the Aux system.

Set up a variety of GROUP CHANNELS with effects KoreSounds and route your SOURCE CHANNELS through them. Then you take a Performance USER PAGE and assign the AUX LEVEL settings to the Controller knob.

If you invert one assignment (more on this in chapter 3.5.4) you can seamlessly blend between the two effects signals with one Controller element.

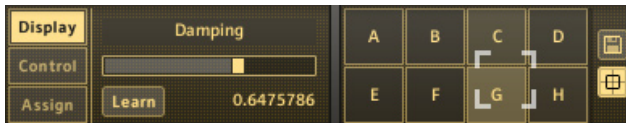
This is not true parameter morphing, but only a pseudo-morph. However, it can lead to very organic transitions.

3.5 Global Controller: Controlling sounds



In the above picture you can see the GLOBAL CONTROLLER displaying a USER PAGE of a SingleSound. The GLOBAL CONTROLLER is your one-stop, context-sensitive interface to the CONTROL PAGE system in KORE 2. It also mirrors the status of your KORE 2 Controller in terms of page display and parameter values.

As with the KORE 2 Controller hardware you have eight CONTROL PAGE BUTTONS and eight. CONTROL PAGE BUTTONS at your disposal. If a parameter is assigned to the element, you can see the SHORT PARAMETER NAME depicted to the left of the Knob or Button.



The DISPLAY TAB of the GLOBAL CONTROLLER always displays the Controller that has been touched last with its long name and the PARAMETER VALUE. The value is also displayed with a white bar.

The LONG PARAMETER NAME can be edited to your liking. Click it with your mouse and type in a new name. This is the long, editable version of the

parameter. Beside of the Controller element (Knob or Button) you can see the SHORT PARAMETER NAME which is not editable.

3.5.1 Pages and Sound Variations

Control Pages



The hardware and the GLOBAL CONTROLLER display the same CONTROL PAGE.

The CONTROL PAGE system plays an important role in making KORE 2 a musical Super Instrument. A CONTROL PAGE is nothing else but a set of KORE 2 and / or plug-in parameters assigned to the hardware elements of your KORE 2 Controller. There can be many Pages per Sound and of course you can customize them to fit your personal style. Whether it's a KORE 2 mixer setting, the filter cutoff of a synth or the depth of a delay, simply assign it to a Page and define the values with your hardware.

The Pages belong to the KoreSounds sitting in the CHANNEL INSERTS of the SOUND MATRIX. Every component and every channel has its own set of Pages. You can assign as many parameters as you want to a single knob or button of your KORE 2 Controller – all with fine-grained control over the data ranges. The hardware state is mirrored in the software.

The GLOBAL CONTROLLER displays the same Pages as the KORE 2 Controller, providing effortless transitions between using your fingers and the mouse in a context-sensitive way. Navigate to a Page on the Controller and the GLOBAL CONTROLLER of the KORE 2 application or KORE 2 plug-in will automatically display the same Page (unless you lock it to a specific component you want to see all the time). Set a value and it will immediately update on both systems.

The factory KoreSounds come with a ready-to-use set of CONTROL PAGES that have the most important parameters of the sound assembled on one or two Pages.

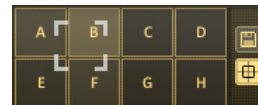
Last but not least, the parameters of the CONTROL PAGES are also used to assemble the AUTOMATION LIST, i.e. the set of parameters that are published in the host when KORE 2 is running as a plug-in.

Please read the following sections and also the Chapter about the KORE 2 Controller (chapter 3.9) to learn more about the CONTROL PAGE system. There is a dedicated chapter about the SOUND MANAGER where you can learn everything about the AUTOMATION LIST (chapter 3.6.3).

Sound Variations

The SOUND VARIATIONS are of similar importance to the Pages in demonstrating KORE 2's instrumental merits. SOUND VARIATIONS are roughly equivalent to the presets for the USER PAGES. The great thing about SOUND VARIATIONS is that they are not discrete entities but can be morphed into each other. This provides you with an organic field of sound and ensures that you will come up with fresh sounds all the time.

The concept is very easy: Specify a sound via the USER PAGES (be it on-screen or with your KORE 2 Controller), hit the SAVE button, click a slot and you have your first Variation. Go on to make some more (up to eight can be saved). Now you can move the MORPH handle to seamlessly morph between the different states of the Controller. Use this facility to breathe new life into your performances. Please continue reading this chapter for details about how to work with SOUND VARIATIONS.



3.5.2 Plug-in Pages, Channel Pages and User Pages



A Channel Page, a Plug-in Page and a User Page of a KoreSound.

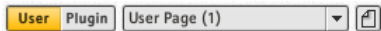
CONTROL PAGES can take three forms:

1. **PLUG-IN PAGES** display the parameters published by a VST-/AU-plug-in. Depending on the complexity of the plug-in, there can be quite a number of them. The Plug-in Pages are fixed, you cannot change them manually.
2. **CHANNEL PAGES** display the mixer parameters of the currently focused channel. Click on the **CHANNEL HEADER** to see its Channel Page or navigate to it using your **KORE 2 Controller** (see chapter 3.9 for details).

They get populated automatically as you build your routing structures. You cannot change them manually.

3. **USER PAGES** are your flexible tools for setting up your own interface. By default there are one or two pre-defined **USER PAGES** per **KoreSound** offering the most important parameters. They can be adjusted to your liking. You can create new **USER PAGES** to expand your control and populate them with any parameter you want – no matter if it is a **KORE 2** parameter or a plug-in parameter.

You can always see exactly which **Page** is being displayed. On the **HEADER Row** of the **GLOBAL Controller** there are two buttons.



The **USER PAGE** button switches to the **USER PAGE** of the component currently in focus and provides access to the **PAGE SELECT** menu. Here you can choose which **Page** is displayed on the **Controller**. Of course you can always use your **KORE 2 Controller** for navigation, too.



If you have focused a channel (by clicking its **CHANNEL HEADER** or via the **KORE 2 Controller**), **KORE 2** automatically switches to the corresponding **CHANNEL PAGE**. The **CHANNEL PAGES** assemble all **Mixer controls** of the respective channel. If you set up new signal routings via the auxiliary sends, the new controls will show up on the **CHANNEL PAGE** automatically.

3.5.3 Creating Pages and assigning controls

The only Page type you can create from scratch is the USER PAGE. Of course you are also free to change any existing USER PAGES to fit your needs.



To create a new USER PAGE you must first decide on which level of your SOUND MATRIX you want to create it. Remember that you can have USER PAGES for every component, be it a SingleSound containing a VST/AU-plug-in or an internal Effect Component, a MultiSound or a Performance. Create the Page by clicking the NEW PAGE icon beside the PAGE SELECT menu. Once you have created a USER PAGE you are ready to populate it by assigning parameters to the Controls of the Page. This is a straightforward process:

- ▶ Click on the CONTROLLER you want to assign the parameter to (or touch it on your KORE 2 Controller). It starts to blink in red within the software and glows on the hardware.
- ▶ Click on the LEARN button on the ASSIGN or DISPLAY Tab of the Controller. The LEARN button as well as the selected Controller starts to blink. The respective control of the hardware does the same.
- ▶ Move the parameter you want to assign. It can sit anywhere in KORE 2. A knob on a plug-in interface, a mixer parameter, anything goes.
- ▶ Hit the LEARN button again to exit learn mode or continue assigning



- ▶ via the amount of range adjustment of the assigned parameter when in learn mode. If you move it over a small range and deactivate LEARN mode, the CONTROLLER KNOB on the CONTROL PAGE will control that small range with its complete movement.

Please note that you can not only assign continuous dials to knobs and buttons to switches but that it also works the other way around. If you assign a switched, dual-state parameter to a CONTROL PAGE KNOB, the knob switches the button at its extreme values (fully left and fully right). If you assign a continuous parameter to a CONTROL PAGE BUTTON it will toggle the continuous parameter between the DESTINATION RANGE MINIMUM and the MAXIMUM (see chapter 3.5.4 Advanced Assignments).

Managing User Pages

If you want to rename, delete or change the order of your USER PAGES you can do this via the SOUND MANAGER, which has its own chapter in this manual (chapter 3.6).

3.5.4 Advanced assignments

Multiple Assignments



KORE 2 also provides a means for assigning multiple parameters to a single CONTROLLER on a CONTROL PAGE. The MULTI ASSIGN switch toggles the Learn button to multi-assign-mode. If you then use the Learn function you can assign multiple parameters. Just click them on the interface to add them to the DESTINATION LABEL DISPLAY on the right side of the CONTROL TAB.

The third button of the ASSIGN TAB is the RANGE ASSIGN. If active, KORE 2 will detect the lower and upper limit of you moving the destination parameter during assignment. This will automatically be set as the control range for the respective parameter. You can also alter this manually afterwards (see below).

To delete unwanted destinations, simply click on the DESTINATION REMOVE buttons to the right of the DESTINATION LABELS.

The RELATIVE ASSIGNMENT mode is for keeping the relative position of multiple assigned parameters. This applies only if one of the parameters is moved “directly” i.e. not via the CONTROL PAGE but by using the parameter dial on the KORE 2/plug-in interface.

For example: You have two different parameters – cutoff and resonance of the MASSIVE plug-in – assigned to the same CONTROLLER KNOB:

- ▶ Without RELATIVE mode, both parameters will always display the exact position of the Controller Knob.
- ▶ If the RELATIVE mode is activated and you adjust the resonance on Massive’s plug-in interface, the CONTROLLER KNOB will not move the resonance setting through its complete range but keep the difference it has to the cutoff setting.



Don't be confused that the Assign Tab does not work for Pages other than the User Pages. Channel and Plug-in Pages are not editable.

Controller ranges

For every Destination on the list you can define a minimum and a maximum setting for the control range. This can also be done interactively during Learn (see above).

To change the range grab one of the yellow range limits and move your mouse horizontally. This will change the DESTINATION RANGE MIN and MAX values. Also, you can click inside of the range to move both limits at the same time.

There are more ways to do this:

- ▶ Click with your mouse into the value fields and drag up or down.
- ▶ Double-click on the value and type it in via the keyboard of your computer.

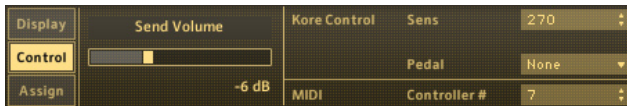


An Example: If you have set DESTINATION RANGE MINIMUM to 0 and the MAXIMUM to 100, although the DESTINATION parameter has a range from -100 to +200, you can only reach 0 and 100 with the extreme positions of your Controller.



Sometimes you may have the feeling that a synth or effect has a parameter inverted or you want to control two parameters with one knob in a way similar to a crossfader. This is easily done in KORE 2 by setting the DESTINATION RANGE MIN value to a higher value than the DESTINATION MAX value. This inverse assignment is also displayed by a yellow arrow in the DESTINATION RANGE DISPLAY.

External control



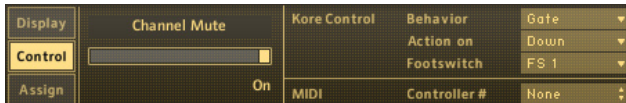
The CONTROL TAB provides some utility parameters dealing with the KORE 2 Controller plus a facility for assigning external MIDI control. Please read chapter 3.9 “The KORE 2 Controller” to learn more about the KORE 2 Controller.

The KORE CONTROL SECTION of the CONTROL TAB looks differently for knobs and switches. In the above picture you see the Knob settings. SENSITIVITY lets you define the KORE 2 Controller sensitivity for the respective knob. The value is displayed in degrees and it specifies the angle you have to

turn the hardware knob to go through the complete range of values. The lowest value is 30° and the highest is 3600°, meaning that you have to make ten full cycles to go through all values.

In the PEDAL menu you have the choice between:

- ▶ *None*, for no Pedal input
- ▶ *Pedal 1* or *Pedal 2* for controlling the respective Controller via one of the two Pedals that may be connected to your KORE 2 Controller.



For the buttons of your KORE 2 Controller the CONTROL TAB has a few parameters more than for the knobs.

The BEHAVIOR menu controls the mode of the button:

- ▶ *Toggle* means the button switches state with every button hit.
- ▶ *Trigger* only sends one message if you hit the button. Depending on the ACTION ON parameter, this can be “down” or “up”. Use this to get buttons that can only switch on/off other buttons.
- ▶ *Gate* leads to an on state while the button is being held down and switches to off when it is released.

The ACTION ON setting decides if the action of the button is happening on the down or the up state of the button. This only works with the Toggle and Trigger behaviors.

In the FOOTSWITCH menu you have the choice between:

- ▶ *None*, for no Footswitch input

- ▶ *FS 1* or *FS 2* for controlling the respective Controller button via one of the two Footswitches that may be connected to your KORE 2 Controller.

Of course you can also use external MIDI data to move the Controllers on a PAGE, be it a USER PAGE, a CHANNEL PAGE or a PLUG-IN PAGE. Just select the desired Controller on the Page and specify a MIDI controller number (0 to 127) in the MIDI CC ASSIGNMENT field.

The respective MIDI data will be received corresponding to the settings on the MIDI TAB of the channel. Please see the chapter about the EDIT AREA (chapter 3.4) for more on MIDI ports and channels.

3.5.5 Sound Variations and morphing

The last section on the GLOBAL CONTROLLER of KORE 2 is dedicated to the SOUND VARIATIONS. Every KoreSound can store up to eight different settings of its CONTROL PAGES. These can be recalled directly or you can morph between the settings of the knobs (not the buttons) creating seamless sound transitions.

Define some Controllers on your USER, CHANNEL or PLUG-IN PAGES and click the SOUND VARIATION SAVE Button. It starts to blink in yellow and you can choose one of the eight Variations on the VARIATION GRID. Click it and the Variation is saved. The letter representing the different Variation changes its color from white to black, denoting that it holds a CONTROL PAGE state.



Please note that you can exclude Pages from being saved in a Sound Variation by using the Recall column on the Page List of the Sound Manager (see below).

The crosshair symbol below the Save button is called SOUND VARIATION MORPH button. When activated (yellow) you can seamlessly move between the different SOUND VARIATIONS with your mouse or your KORE 2 Controller. If the SOUND VARIATION MORPH button is inactive, you can only switch the Variations discretely, leading to jumps in the parameter values. This also works when you use your KORE 2 Controller for changing Variations. Furthermore, you can switch the SOUND VARIATIONS directly via the eight buttons of your KORE 2 Controller. Please read the chapter about your KORE 2 Controller to learn more about using the KORE 2 hardware.

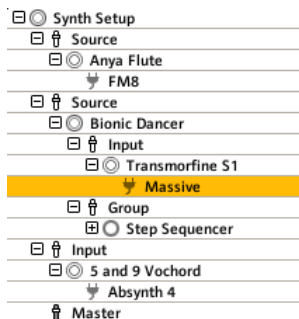


Please note that you can assign the two axes of the Sound Variation Grid to Controllers of your Kore Controller for hands-on sound Morphing.

3.6 Sound Manager: Arranging Performances

Use the **SOUND MANAGER** to define the Keyboard ranges of the various elements of a Performance and manage the **CONTROL PAGES** within the host for parameter automation.

3.6.1 The Sound Tree



The Sound Tree displaying a KORE 2 Performance.

On the left side of the **SOUND MANAGER** you have the **SOUND TREE** with all available Sounds and Channels in the Performance, along with their names. The underlying structure of the **SOUND TREE** can be summarized as follows:

- ▶ The highest node is always a MultiSound – the Performance.

- ▶ The child-nodes of a MultiSound are the channels of that MultiSound, ordered by their CHANNEL NUMBER.
- ▶ The child-nodes of a channel are KoreSounds – which can be Single or MultiSounds – ordered by signal flow.
- ▶ At the bottom of the hierarchy you can find the plug-ins, which are the child-nodes of Single Sounds.
- ▶ The MASTER CHANNEL always has its own node.

There are four types of nodes in the SOUND TREE and each of them has its own symbol:



Sounds are represented by a circle.



Channels are represented by a small Fader as their symbol.



The MASTER CHANNEL has a shadowed Fader as its symbol.



Plug-ins are represented by a plug-symbol.

Any element on the SOUND TREE can be compacted and expanded to hide or show its child elements. To do this, click on the small symbols (plus/minus) in front of the Sound and channel names.

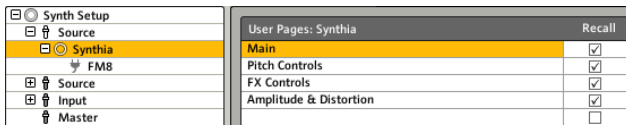
For more information about the differences between MultiSound, Single Sound, Channels and plug-ins, please refer to chapter 3.1.2.

To the right of the SOUND TREE you find two tabs:

- ▶ The MAPPING EDITOR and the
- ▶ AUTOMATION LIST

Both will be explained in the following sections.

3.6.2 Advanced Page Management



To the right of the SOUND TREE you find the PAGE LIST. It always displays the available Pages of the node you have currently selected on the SOUND TREE. This could be the PLUG-IN PAGES of a VST-plugin, the USER PAGES of a MultiSound, the CHANNEL PAGES of a CHANNEL and so on. The Header of the PAGE LIST also displays the component name the Pages belong to. In the picture above you can see the two pre-defined USER PAGES of a SingleSound named “Synthia”.

The list doubles as a general manager for your Pages and as a facility to assemble the list of parameters that are published within the host for automation. Please read the next chapter for more information on this.

Click on the name of a USER PAGE to change it via the keyboard of your computer. You can also grab a USER PAGE with your mouse and drag it to another position to re-arrange the list. Both actions are not possible with the other Page types, as they are not editable.

Check the RECALL box to store the respective Page in a SOUND VARIATION. This way you can define CONTROLLER settings that are not influenced by morphing



or by the recall of SOUND VARIATIONS. Please note that the settings of the Pages are always saved into SOUND VARIATIONS, they just are not recalled if the RECALL flag is unchecked.

Below the PAGE LIST you find some buttons. The ADD TO AUTOMATION LIST button does just what it says: it adds the parameters of the currently selected Page to the Automation List. This actually happens automatically when a sound is loaded or created. Please read the next chapter for details about host automation.

DELETE is self-explanatory, too, as it deletes the currently selected Page. To create a new Page, click on the NEW PAGE icon in the GLOBAL CONTROLLER or use the LEARN button.

The two PAGE UP/DOWN buttons step through the Pages on the list.

Use the button further down the PAGE LIST to add parameters representing the horizontal (X) and vertical (Y) morphing within the SOUND VARIATIONsto the AUTOMATION LIST for automating SOUND MORPHING from the host. You can do this for every component on the SOUND TREE. These are the parameters that control the morphing movements on the SOUND VARIATION GRID.



3.6.3 Pages and host automation

Automation List	
button demo SoundVariation X+Y	0 + 1
Sainted Spirits SoundVariation X+Y	2 + 3
Vox FM SoundVariation X+Y	4 + 5
---	6 + 7
Flex Verb SoundVariation X+Y	8 + 9
Filterbank SoundVariation X+Y	10 + 11
Saint Candle SoundVariation X+Y	12 + 13
Expander SoundVariation X+Y	14 + 15
---	16 + 17
---	18 + 19
---	20 + 21
---	22 + 23
---	24 + 25
---	26 + 27
---	28 + 29
---	30 + 31
Source / Mixer	32 - 47
Master / Mixer	48 - 63
button demo / User Page (1)	64 - 79
Source / Mixer	80 - 95
Sainted Spirits / User Page (1)	96 - 111
Input / Mixer	112 - 127
Vox FM / Abs4 EA1	128 - 143
Vox FM / Abs4 EA2	144 - 159
Group / Mixer	160 - 175
Group / Mixer	176 - 191
Saint Candle / User Page (1)	192 - 207
Source / Mixer	208 - 223

▲ ▼

KORE 2's list of automatable parameters.

The VST standard for audio plug-ins provides a way for remote-controlling parameters in plug-ins called automation (this also applies for AU, RTAS and other plug-in protocols). Nearly every sequencing package that can host VST-plug-ins supports this. So if you have set up a nice KoreSound while KORE 2 is running as a plug-in in your favourite sequencer, you can also use this powerful system to generate very elaborate sounds. Please refer to the documentation of your sequencing package for information on how to set up plug-in automation.

KoreSounds can be nested structures using various instruments and effects. However, the list of parameters subject to automation needs to be structured in a linear fashion, due to the way host and plug-in communicate with each other. For this reason, the hierarchical structure of KORE 2's performance is transformed into a linear list.

KORE 2 creates the list by simply adhering the KoreSounds' Pages to each other. When a new sound is created or loaded, its Pages are inserted at the first available slot of the list (if any Pages have been removed before there can be "holes" in the list). This process only ceases when around 1000 parameters – with 16 on each Page, corresponding to more than 60 Pages – are published. This is due to restrictions on the side of the host. All this is organized in KORE 2 with the AUTOMATION LIST. It is opened by clicking on the PAGES AND AUTOMATION TAB of the SOUND MANAGER. With this editor you add and remove CONTROL PAGES to the list of automatable parameters.

Most of the times you won't need to re-arrange your AUTOMATION LIST. However, some sequencing packages are limited in the number of addressable automation IDs. In such a case you have to manually organize your automation IDs to put the Pages containing the desired parameters



Automation of parameters does work along similar lines in other plug-in protocols like AudioUnits or RTAS.

in reach for the host. In the case of Ableton Live, the Pages you want to automate have to sit in slots lower than 128.

If you tend to think your VST automation from the host (choosing the parameters in the host, and not automating by recording parameter changes in KORE 2) the AUTOMATION LIST can also be of help. You can organize it in the way that suits you best, i.e. first all CHANNEL PAGES, and then all the USER PAGES of the FX and the synthesis stuff last.

Use the SOUND TREE to navigate the SOUND MATRIX and to select the different components for accessing their CONTROL PAGES. You will notice that some of the rows on the list are highlighted. These entries belong to the node currently selected on the SOUND TREE (see chapter 3.6.1).

Use the ADD TO AUTOMATION LIST button below the PAGE LIST to add the currently selected Page to the AUTOMATION LIST. This means that all the parameters residing on the respective Page will be accessible to the host. Each of the added Pages shows up on the AUTOMATION LIST.

The first 32 rows of the AUTOMATION LIST are reserved for the X+Y-Parameters controlling the SOUND MORPHING of the KoreSounds. You cannot move any other Pages into this upper part of the list.

This also means that there is a maximum of 16 KoreSounds for which you can automate the SOUND MORPHING – which normally should be enough.

The left column of the AUTOMATION LIST displays the name of the parameter while the right column shows the AUTOMATION ID. The order of the Automation IDs is fixed, as they are defined by the VST standard.



Editing the Automation List

The AUTOMATION LIST can run in two modes; you can toggle between via the EDIT AUTOMATION LIST button. If the button is inactive, the list is read-only and you can't change it. For editing, toggle the button to yellow.

Pages are removed from the Automation List by selecting them and hitting the REMOVE AUTOMATION PAGE button. Please note that by removing any Pages from the Automation List the list is not re-arranged. This provides consistent Automation IDs for the remaining Pages and if the Performance has been automated in a host everything is still working as before.

If you want to re-arrange the Automation List, you can either grab an entry with the mouse and drop it at the new position in the list, or you can use the small arrows to the right of the REMOVE button for moving the selected entry up or down on the list.



Remember that the first 32 entries are reserved for the Sound Morph parameters so don't be confused when you can't move the other Pages into this region of the list.

3.6.4 Advanced MIDI mapping of sounds



The SOUND MANAGER'S CHANNEL MAPPING TAB.

Whether you are using KORE 2 in a performance setup to be controlled via a keyboard on stage or as a plug-in in a sequencing environment, being able to control the input range of MIDI notes and MIDI velocities for your components can be very important. This allows you to create keyboard splits for playing different sounds on one keyboard or for crossfading between different sounds via the velocity of the incoming MIDI notes.

Click on the CHANNEL MAPPING TAB of the SOUND MANAGER to open the MAPPING AREA providing you with easy means to set up Key Ranges on one concise interface. Ranges are set up for the channels, not for Sounds or plug-ins.

The editor always displays all the Key Ranges for all current channels of the SOUND TREE.

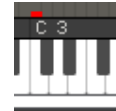
The space on the right consists of the MAPPING AREA, with all key ranges displayed as bars. To change a channel's key range, just grab the low or high range limit and move your mouse. The limits can also be modified

via the Low/HIGH NOTE values shown in the upper right part of the MAPPING EDITOR (see below for more information).

Below the MAPPING AREA, the PIANO ROLL displays the MIDI octaves to help orientation. You can play this virtual keyboard with your mouse, which is helpful when you're using KORE 2 and no MIDI keyboard is connected.

The PIANO ROLL is also Velocity sensitive, based on the position of your mouse click on the keys. The lower the key, the higher the Velocity. If you set a parent's channel key range with limits that are narrower than those of the child channels, the parental channel key range will mask the child channels' key range without changing their boundaries. This is due to the fact, that channel key ranges are features of the KoreSounds and are left untouched by settings on higher levels. That means, that MIDI notes lying outside of the parental channel's key range will not reach the respective child channel, although its key range may be wider. KoreSounds are entities independent of the parental Performance or MultiSound and changing their keyranges to that of the parent would potentially break their function in other MultiSounds.

The MAPPING AREA also shows when a channel is being played by a MIDI note event by displaying a note indicator above the corresponding MIDI note on the PIANO ROLL. The upper right area of the MAPPING EDITOR displays the MIDI Filter settings of the currently selected channel.



The MIDI Section of the MAPPING EDITOR.

The settings shown here can also be found on the MIDI Tab of the channel. Please see chapter 3.4.1 for details.

The key range can be set with the mouse by clicking on the Low/High NOTE values and dragging up or down.


Use the TRANSPOSE parameter to transpose the channel up or down in semitones.

The HIGH/LOW VELOCITY values define the lower and upper limits of a velocity window within which incoming MIDI notes will trigger the respective channel. If, for example, the lower limit is set to 100, only notes with a velocity higher or equal to 100 will trigger sound on this channel. Furthermore, you can choose the MIDI INPUT port and MIDI CHANNEL (1-16 or Omni) for the currently selected KORE 2 channel. In Omni mode the channel receives MIDI data on all MIDI channels.

The lower-right corner of the MAPPING EDITOR has controls to zoom in and out of the display of the PIANO ROLL. Click on the plus and minus symbols to zoom in or out of the keyboard. If a higher magnification is set, you can scroll the display with the SCROLL BAR below the PIANO ROLL.

3.7 Browser: Accessing the sound repository

The next section deals with a very important aspect of KORE 2: the BROWSER. First we will talk about the basic structure and functions of its main elements. Next will be the part about actually finding sounds and loading them into KORE 2. The last section of this chapter deals with setting up and creating your own ATTRIBUTES.



Type	Mode	Timbre	Name	Components	Bank	
Piano/Keys	Basic Pad	Araggriated	High	Abyss Flowers	Massive	Kore 2.0 Factory Library
Organ	Airy Pad	Sequence/Loop	Low	Aerodrone	Massive	Kore 2.0 Factory Library
Synth Lead	Chime Pad	Tempo-synned	Distorted	Aerospace Reptiles	Abeynth 4	Kore 2.0 Factory Library
Synth Pad	Chord Pad	Sample-based	Clean	Alpine Flora	FMB	Kore 2.0 Factory Library
Synth Misc	Bright Pad	Synthetic	Fat	Beady Queen	Massive	Kore 2.0 Factory Library
Guitar	Long Pad	Fat	Thin	Champagne	FMB, Kore Space Rewerb	Kore 2.0 Factory Library
Plucked Strings	Dirty Pad	Additive	Hard	Church of Coconos	Abeynth 4, Kore Flex Verb	Kore 2.0 Factory Library
Bass	Layered Pad	Physical Model	Soft	Cypon Design	Massive	Kore 2.0 Factory Library
Drums	Envelope Pad	Granular	Muted	Distant Lover	Kore Flex Verb, Kore Phaser, Reaktor5	Kore 2.0 Factory Library
Percussion	Other Pad	Dry	Detuned	Eminent Gallery	Reaktor5	Kore 2.0 Factory Library
Mallet Instruments		Processed	Dissonant	Exhale in Paradise	Massive	Kore 2.0 Factory Library
Flute		Monophonic	Noisy	Fat Snake	FMB	Kore 2.0 Factory Library
Reed Instruments		Chord	Wooden	Frozen Chocolate	Massive	Kore 2.0 Factory Library
Brass		Glide/Pitch Mod	Eupic	Hypnotized Pixels	Massive	Kore 2.0 Factory Library
Bowed Strings		Slow Attack	Bright	Iced Castle	Massive	Kore 2.0 Factory Library
Vocal		Long Release	Dark			
Soundscapes		Long/Releasing	Warm			
Sound Effects		Percussive	Cold			
Multitrack		Surround	Metallic			
Other						

The BROWSER is at the heart of KORE 2's approach to sound management. It provides you with a consistent and easy to use interface for managing your Sounds, Effects, Performances, plug-ins and MIDI-files. Apart from looking at your USER SOUNDS FOLDERS that are defined via KORE 2's Options (see chapter 3.3.5) the important concept in the Browser are the ATTRIBUTES. The huge KoreSound library has been completely categorized and the Sounds have been tagged with a comprehensive set of ATTRIBUTES. This makes it possible to find the Sounds you need with just a few clicks in the BROWSER.

In KORE 2 you can expand this system by defining your own ATTRIBUTES, tailoring the Sound database to your own needs with the USER SETS feature. Please read chapter 3.7.4 for a good introduction into this topic.

3.7.1 General usage

There are different ways to use your KORE 2 Library:

The left part is comprised of the ATTRIBUTES AREA which is context sensitive and changes its contents depending on the BROWSER VIEW you have.

You can filter the database using the expandable ATTRIBUTES system or navigate the KORE 2 content folders on your file system. On the right side you can generate search results by using keywords in the QUICK SEARCH field below. The SEARCH RESULTS LIST displays the resulting Sounds based on your selections in the ATTRIBUTES AREA or on your keyword search, respectively. The layout of the BROWSER can be altered by dragging the small handle on the frame between the windows to either side. It can be resized vertically via the handle on top of the BROWSER window. A similar handle can be found between the ATTRIBUTES LIST and the SEARCH RESULTS LIST. Use it to optimize the space for the viewing task at hand.



You can also move through the Search Results List via the up/down/page-up/page-down keys of your computer keyboard.



When the Browser is active you can hide the Sound Structure leading to a Browser-only interface.



The **VIEW BUTTONS** are your main tools for browsing and searching the **KORE 2** database and for navigating the **KORE 2** content on your file system. The first group of four buttons is for choosing the basic type of component you are looking for. From left to right the options are:

- ▶ **PERFORMANCES**
- ▶ **SOUNDS**, including **SingleSounds** and **MultiSounds** which can be instrumental, **FX** or of the **MIDI** variety (e.g. **STEP SEQUENCER**, or **ARPEGGIATOR** presets)
- ▶ **MIDI FILES** are standardized **MIDI** data containers you can use for playback in the **MIDI FILE PLAYER**
- ▶ **PLUG-INS** (**VST/AU** and **KORE 2** internal) which also can be of instrumental, **FX** or **MIDI** variety.
- ▶ The other three buttons are only accessible for the **SOUNDS** and **PLUG-INS** Views. They switch the **BROWSER** function to search for three different varieties of **SOUNDS** or **PLUG-INS**:
- ▶ **INSTRUMENTS**, meaning **Sounds** or **Plug-ins** that actually produce sound
- ▶ **FX**, which are concerned with processing sound
- ▶ **MIDI** components or **Plug-ins**, like sequencers, **MIDI Players** or **Arpeggiators**

Customize your Attributes Area

The **ATTRIBUTES AREA** combines flexibility with ease of use. You can add and remove columns from the list on the go as well as add your own sets of **ATTRIBUTES**. This is accomplished via the context menu of the **ATTRIBUTE HEADER AREA**. Open it by right-clicking on the header (Mac: control-click).

For every column of the ATTRIBUTES List you can decide which ATTRIBUTES SET will be displayed by setting the respective flag on the menu. Depending on what you are browsing, the menu appears differently. And if you have created your own USER CATEGORIES, it will look different, too. This system allows you to define the combination of shown ATTRIBUTES for every view of the BROWSER. The minimal context-menus for browsing the different components of the database look as follows:



The context-menu of the ATTRIBUTES HEADER for Performances, Sounds, MIDI Files and Plug-ins. Note that the FACTORY ATTRIBUTES CATEGORIES are different when browsing instrumental, FX, or MIDI Sounds.

The basic structure is similar in all four cases:

- ▶ *Path* displays the USER SOUNDS FOLDERS as defined in KORE 2's Options (see chapter 3.3.5 for details). This view is not available for plug-ins.
- ▶ The FACTORY ATTRIBUTES CATEGORIES are listed next, providing access to KORE 2's pre-defined ATTRIBUTES.
- ▶ Use the *Create User Set* command to set up your own system of ATTRIBUTES (see chapter 3.5).
- ▶ The *Options* sub-menu provides some additional options for controlling BROWSER behavior.
- ▶ The menu for Sounds, MIDI files and plug-ins have a special entry called *Plug-in*, which is used to display the list of installed plug-ins in a column of the ATTRIBUTES AREA.

Customizing your Search Results List

Name	Components	Color	Bank
Abendstern	Kore Arpeggiator, ~	<input checked="" type="checkbox"/> Name	Factory Library
Abyss Flowers	Massive	<input type="checkbox"/> Vendor	Factory Library
Aerodrone	Massive	<input type="checkbox"/> Author	Factory Library
Aerospace Reptiles	Absynth 4	<input checked="" type="checkbox"/> Bank	Factory Library
Alpine Flora	FM8	<input type="checkbox"/> Path	Factory Library
Anya Flute	FM8	<input checked="" type="checkbox"/> Color	Factory Library
Arctic Circle	Massive	<input type="checkbox"/> Modified	Factory Library
Atomizer	Massive	<input type="checkbox"/> Rating	Factory Library
Baileys	FM8, Kore Cabinet~	<input type="checkbox"/> Comment	Factory Library
Ballerina's Night	Massive	<input type="checkbox"/> Flag	Factory Library
Basic Pencil	Reaktor5	<input checked="" type="checkbox"/> Components	Factory Library
Beauty Queen	Massive	<input type="checkbox"/> Attributized	Factory Library
Best Comfort	FM8		
Bijou Child	Massive		
Bizarre Rapture	Absynth 4		

The SEARCH RESULTS LIST is also very flexible in its organization. By right-clicking (Mac: Ctrl-click) on the SEARCH RESULTS HEADER of the columns you get a context menu showing all available categories the META INFORMATION (see one of the next sections for a detailed description) plus some additional ones:

- ▶ *Name* displays the name of the KoreSound
- ▶ *Vendor* displays the information written in the VENDOR field of the META INFORMATION.

- ▶ *Author* shows information written in the AUTHOR field of the META INFORMATION.
- ▶ *Bank* displays the information written in the BANK field of the META INFORMATION.
- ▶ *Path* shows the location of the KoreSound on your file system relative to the FACTORY PATH or the STANDARD USER PATH.
- ▶ *Color* displays the color of the KoreSound as defined in the COLOR field of the META INFORMATION.
- ▶ *Modified* shows the last modification date of the KoreSound.
- ▶ *Rating* shows information found in the RATING field of the META INFORMATION.
- ▶ *Comment* displays what is written in the COMMENTS field of the META INFORMATION.
- ▶ *Flag* is a convenient feature for filtering through large RESULTS LISTS. For example: You have searched for a combination of ATTRIBUTES (see below for more on searching) and received a large number of results. Now you can scroll through the list and tag KoreSounds by adding ticks in the FLAG column. If you have finished, you simply order the list by the FLAG column and you have all your tagged KoreSounds neatly condensed.
- ▶ *Component* shows all components (plug-ins and internal KORE 2 modules) used by the respective KoreSound.
- ▶ *Attributized* shows you if the respective KoreSound has been tagged with ATTRIBUTES or not. This is very handy if you are in a nice sound design flow and want to set the ATTRIBUTES of your production at a later stage.

The SEARCH RESULTS LIST can be re-structured by:

- ▶ Clicking between the columns (the mouse pointer changes to a resize-symbol) and dragging the mouse sideways to resize the columns.
- ▶ Clicking and dragging the column header of a column to move it to another place horizontally. A red line appears to denote the position of the left side of the moved column.
- ▶ Sorting the column with a click on the column headers. A small arrow appears on the header of the sorting column. Click again to reverse the sort order.

Name	Components	Bank
Krisco Blueprint	Massive	Kore 2.0 Factory Library
Late Night Strings	Absynth 4, Kore Flex Verb	Kore 2.0 Factory Library
Lost in Trees	Massive	Kore 2.0 Factory Library
Low Frequency Quake	Reaktor5	Kore 2.0 Factory Library
Lucifer's Akoustique	FMB	Kore 2.0 Factory Library
Magic Flute	Reaktor5	Kore 2.0 Factory Library
Magnet Monster	Kore Arpeggiator, Massive	Kore 2.0 Factory Library
Marimba Secrets	Kore Flex Verb, Kore Phaser, Massive	Kore 2.0 Factory Library
Mirphak	FMB	Kore 2.0 Factory Library
Mondlichter	FMB, Kore Arpeggiator, Kore Pattern Delay	Kore 2.0 Factory Library
Mutated Bell	Massive	Kore 2.0 Factory Library
Narcotic Haircut	FMB	Kore 2.0 Factory Library
Neuromancer	Absynth 4	Kore 2.0 Factory Library
Noise Conduit	FMB, Kore Flex Verb	Kore 2.0 Factory Library
Noise Recorder	Massive	Kore 2.0 Factory Library

Name	Components	Bank
Krisco Blueprint	Massive	Kore 2.0 Factory Library
Late Night Strings	Absynth 4, Kore Flex Verb	Kore 2.0 Factory Library
Lost in Trees	Massive	Kore 2.0 Factory Library
Low Frequency Quake	Reaktor5	Kore 2.0 Factory Library
Lucifer's Akoustique	FMB	Kore 2.0 Factory Library
Magic Flute	Reaktor5	Kore 2.0 Factory Library
Magnet Monster	Kore Arpeggiator, Massive	Kore 2.0 Factory Library
Marimba Secrets	Kore Flex Verb, Kore Phaser, Massive	Kore 2.0 Factory Library
Mirphak	FMB	Kore 2.0 Factory Library
Mondlichter	FMB, Kore Arpeggiator, Kore Pattern Delay	Kore 2.0 Factory Library
Mutated Bell	Massive	Kore 2.0 Factory Library
Narcotic Haircut	FMB	Kore 2.0 Factory Library
Neuromancer	Absynth 4	Kore 2.0 Factory Library
Noise Conduit	FMB, Kore Flex Verb	Kore 2.0 Factory Library
Noise Recorder	Massive	Kore 2.0 Factory Library

You can select multiple KoreSounds on the SEARCH RESULTS LIST for editing, deleting or opening.

Use your mouse and the Ctrl-key (Mac: cmd-key) on your keyboard to select multiple non-contiguous sounds from the list. If you want to select contiguous sounds use the shift key and click on the first and the last sound of the group of sounds you want to select.

3.7.2 Factory Content and Integrated Engines

Out of the box KORE 2 comes as a ready to play Super Instrument with about 500 KoreSounds stemming from the libraries of the major NATIVE INSTRUMENTS products plus 300 KoreSounds in the guise of presets for the internal FX and MIDI components.

The reason why KORE 2 can be used and played out of the box is that it comes with six INTEGRATED ENGINES. These are special versions of well-known NATIVE INSTRUMENTS products, namely:

- ▶ REAKTOR
- ▶ MASSIVE
- ▶ ABSYNTH
- ▶ FM8
- ▶ KONTAKT
- ▶ GUITAR RIG

Additionally, you get about 5 GB of sample content that is used by the KoreSounds.

In terms of sound and quality the INTEGRATED ENGINES are identical to the full products. The only difference is that you cannot open their plug-in interfaces to program sounds on the plug-in level. If you already have licenses for the respective NATIVE INSTRUMENTS products, they replace the INTEGRATED ENGINES and can be programmed.

You can, however, use the pre-defined USER PAGES containing the most important parameters of the KoreSounds to produce and save new content. As an added bonus, every KoreSound based on the INTEGRATED ENGINES sports eight SOUND VARIATIONS leading to a huge library for your musical work (see chapter 3.5.5 for more on this).

If you own a license for the full product, the respective INTEGRATED ENGINE is replaced automatically and you have full access to all features.

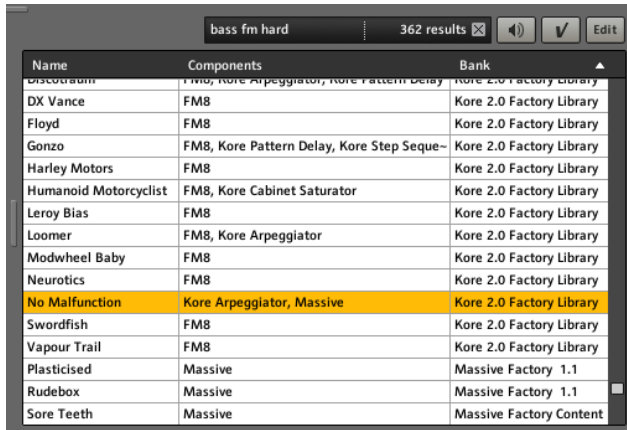
3.7.3 Search, find and load

There are several ways to use your KORE 2 database for the stuff you are looking for:

- ▶ You can browse the database via the location of Sounds by using the `PATHS` function of the `ATTRIBUTES LIST`.
- ▶ You can use the `ATTRIBUTES LIST` on the left side of the browser to display and combine a variety of `ATTRIBUTES` (be they pre-defined by `NATIVE INSTRUMENTS` or of your own design) leading to a list of Search Results.
- ▶ Furthermore, you can use the `QUICK SEARCH` field to search for sounds by entering search terms.

The last two options can be combined for further refinement of Search Results.

Searching via the Quick Search



The screenshot shows a search interface with a search bar containing 'bass fm hard' and '362 results'. Below the search bar is a table with three columns: Name, Components, and Bank. The table lists various sound names and their associated components and banks. The row for 'No Malfunction' is highlighted in yellow.

Name	Components	Bank
Distortion	FM8, Kore Arpeggiator, Kore Pattern Delay	Kore 2.0 Factory Library
DX Vance	FM8	Kore 2.0 Factory Library
Floyd	FM8	Kore 2.0 Factory Library
Gonzo	FM8, Kore Pattern Delay, Kore Step Sequencer	Kore 2.0 Factory Library
Harley Motors	FM8	Kore 2.0 Factory Library
Humanoid Motorcyclist	FM8, Kore Cabinet Saturator	Kore 2.0 Factory Library
Leroy Bias	FM8	Kore 2.0 Factory Library
Loomer	FM8, Kore Arpeggiator	Kore 2.0 Factory Library
Modwheel Baby	FM8	Kore 2.0 Factory Library
Neurotics	FM8	Kore 2.0 Factory Library
No Malfunction	Kore Arpeggiator, Massive	Kore 2.0 Factory Library
Swordfish	FM8	Kore 2.0 Factory Library
Vapour Trail	FM8	Kore 2.0 Factory Library
Plasticised	Massive	Massive Factory 1.1
Rudebox	Massive	Massive Factory 1.1
Sore Teeth	Massive	Massive Factory Content

The QUICK SEARCH field allows you to enter arbitrary keywords that get matched against the content of the database. The search function investigates all the available aspects of the sounds. You will get hits from the names, the authors, the META INFORMATION, etc.

This can be very powerful and fast if you already know what you are looking for, e.g. if you are looking for KoreSounds produced by a specific author.

The QUICK SEARCH can also be combined with filtering via the ATTRIBUTES LIST. Any keywords provided in the QUICK SEARCH field will further constrain your search leading to fewer hits in the SEARCH RESULTS LIST.

To the right of the QUICK SEARCH you can see the number of results for the current search.

The CLEAR SEARCH RESULTS button will reset the BROWSER to a neutral state by clearing the tags on the ATTRIBUTES LIST and the QUICK SEARCH field. Please note that you can quickly open the BROWSER with focus in the QUICK SEARCH field by using the keyboard shortcut Ctrl+f.

Loading KoreSounds from your search results

Floyd	FM8	Kore 2.0 Factory Library
No Malfunction	Kore Arpeggiator, Massive	Kore 2.0 Factory Library
Plasticised	Massive	ry 1.1
Rudebox	Massive	ry 1.1
Sore Teeth	Massive	Remove from Database ry Content
The Slapper	Reaktor5	Remove

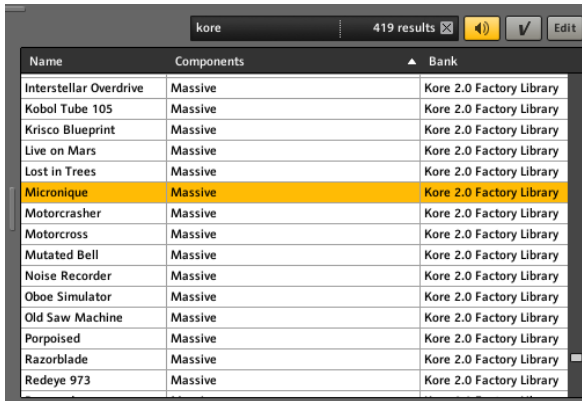
There are several ways to open KoreSounds from the SEARCH RESULTS LIST:

- ▶ A doubleclick opens the KoreSound in the currently focused CHANNEL INSERT on the SOUND MATRIX.
- ▶ You can drag-and-drop KoreSounds into existing CHANNEL INSERTS. Any content residing in the CHANNEL INSERT is replaced by the new KoreSound.
- ▶ It is also possible to drag-and-drop a KoreSound into the empty area of the SOUND MATRIX. This leads to the creation of a new channel containing the new sound in its first CHANNEL INSERT.

- ▶ Another way to open KoreSounds is by using the context-menu of the SEARCH RESULTS LIST (rightclick for PC or Ctrl-click for Mac). Choose *Open* from the menu and the KoreSound is opened in the currently focused CHANNEL INSERT of the SOUND MATRIX.

Please note that it is possible to select multiple Sounds in the SEARCH RESULTS LIST. If multiple KoreSounds are opened via the context menu or by drag-and-drop into the SOUND MATRIX, they will open in multiple CHANNEL INSERTS of the same channel.

The Pre-Listen function



Name	Components	Bank
Interstellar Overdrive	Massive	Kore 2.0 Factory Library
Kobol Tube 105	Massive	Kore 2.0 Factory Library
Krisco Blueprint	Massive	Kore 2.0 Factory Library
Live on Mars	Massive	Kore 2.0 Factory Library
Lost in Trees	Massive	Kore 2.0 Factory Library
Micronique	Massive	Kore 2.0 Factory Library
Motorcrasher	Massive	Kore 2.0 Factory Library
Motorcross	Massive	Kore 2.0 Factory Library
Mutated Bell	Massive	Kore 2.0 Factory Library
Noise Recorder	Massive	Kore 2.0 Factory Library
Oboe Simulator	Massive	Kore 2.0 Factory Library
Old Saw Machine	Massive	Kore 2.0 Factory Library
Porpoised	Massive	Kore 2.0 Factory Library
Razorblade	Massive	Kore 2.0 Factory Library
Redeye 973	Massive	Kore 2.0 Factory Library

KORE 2 offers a PRE-LISTEN function on the SEARCH RESULTS LIST. This can be very convenient if you want to quickly listen through a list of search

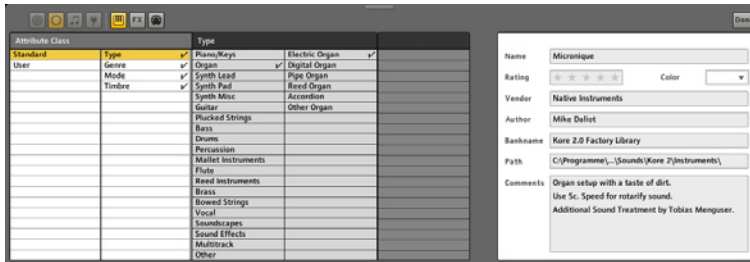
hits. Activate the PRE-LISTEN button to start the function. This will load the currently selected KoreSound from the SEARCH RESULTS LIST into the currently selected CHANNEL INSERT on the SOUND MATRIX. Use your MIDI keyboard or a sequencer track to listen to the sound.

If you keep the PRE-LISTEN function active and select a different KoreSound from the Search Results List, it will immediately be loaded into the same CHANNEL INSERT as the previous sound. If you switch off the PRE-LISTEN function the CHANNEL INSERT returns to the state it was before the activation of the PRE-LISTEN function. This means it either contains the KoreSound it had before or it is empty as before. The button to the right of the PRE-LISTEN button is the PRE-LISTEN APPLY command. By clicking this button while in PRE-LISTEN mode you acknowledge the loading of the pre-listened KoreSound, leave the PRE-LISTEN mode and keep the last heard KoreSound in the CHANNEL INSERT. You can toggle PRE-LISTEN on or off via the keyboard shortcut Ctrl+p.

3.7.4 Setting Attributes, saving sounds and Performances

To extend KORE 2's pre-defined system of ATTRIBUTES and to attributize new KoreSounds the BROWSER has an EDIT mode, which can be activated with a click on the EDIT button to the far right of the BROWSER window.

This is also the BROWSER mode where you can save a KoreSound from the EDIT AREA, if you save a Performance as a KoreSound (see FILE MENU/GLOBAL MENU of the plug-in) or when using the command IMPORT PLUG-IN presets from the context menu of a KoreSound.



You are greeted with an ATTRIBUTES AREA divided into two parts: On the left you have two columns to define the ATTRIBUTES classes. The first column offers a choice between two options:

- ▶ STANDARD, which contains the descriptive ATTRIBUTES defined by NATIVE INSTRUMENTS.
- ▶ USER, which are the ATTRIBUTES you set up with your own system of tags (see below for information on how to do this).

The ATTRIBUTES LIST shows the various ATTRIBUTES belonging into the currently selected ATTRIBUTES CLASS.

Attribute Class		Mode
Standard	Type	Arpeggiated
User	Genre	Sequence/Loop
	Mode	Tempo-synced ✓
	Timbre	Sample-based ✓
		Synthetic ✓
		FM
		Additive
		Physical Model
		Granular
		Dry
		Processed ✓
		Monophonic
		Chord
		Glide/Pitch Mod
		Slow Attack
		Long Release
		Long/Evolving ✓
		Percussive ✓
		Surround ✓

For adding ATTRIBUTES to a KoreSound, simply click on an ATTRIBUTE and a tick will appear next to it. Work your way through the different classes to add descriptive ATTRIBUTES to your KoreSound.

If you set an ATTRIBUTE in a specific ATTRIBUTE class, it is denoted with a tick to the right of the class name. This way you always know which classes you already used.

Attribute Class	Type	Type	Type
Info	Type	✓ Piano/Keys	Basic Pad ✓
Standard	Genre	✓ Organ	Airy Pad ✓
User	Mode	✓ Synth Lead	Chime Pad
	Timbre	✓ Synth Pad ✓	Chord Pad
		Synth Misc	Bright Pad ✓
		Guitar	Deep Pad
		Plucked Strings	Dirty Pad ✓
		Bass	Layered Pad
		Drums	Evolving Pad ✓
		Percussion	Other Pad
		Mallet Instruments	
		Flute	
		Reed Instruments	
		Brass	

Please note that you can invoke the EDIT mode for multiple KoreSounds at the same time. Just select multiple sounds on the SEARCH RESULTS LIST and hit the Edit button. This way you can attributize multiple sounds at once. In the picture above you can see the ATTRIBUTES LIST IN EDIT mode for a set of KoreSounds. Two different colors of the ticks behind the ATTRIBUTES stand out:

- ▶ A GREY tick means that the ATTRIBUTE is set for at least one single KoreSound of the edited set.
- ▶ A BLACK tick means that the ATTRIBUTE is set for all KoreSounds of the set.

You can change the ATTRIBUTES as you would for a single KoreSound. Any changes you make here apply to all KoreSounds in the edited set.

The Meta Information

Name	<input type="text" value="Micronique"/>
Rating	<input type="text" value="☆☆☆☆"/> Color <input type="text"/>
Vendor	<input type="text" value="Native Instruments"/>
Author	<input type="text" value="Mike Daliot"/>
Bankname	<input type="text" value="Kore 2.0 Factory Library"/>
Path	<input type="text" value="C:\Programme\...\Sounds\Kore 2\Instruments\"/>
Comments	<input type="text" value="Organ setup with a taste of dirt.
Use Sc. Speed for rotarify sound.
Additional Sound Treatment by Tobias Menguser."/>

The META INFORMATION fields provide important information relating to your KoreSounds. Among those are technical facts like the PATH or descriptive fields like the RATING.

Remember that Meta fields containing words are also included in your database and can be searched via the BROWSER. Especially the COMMENTS field can come in very handy, where you can fill in additional descriptions and comments. All of these fields can also be displayed in the Search Results.

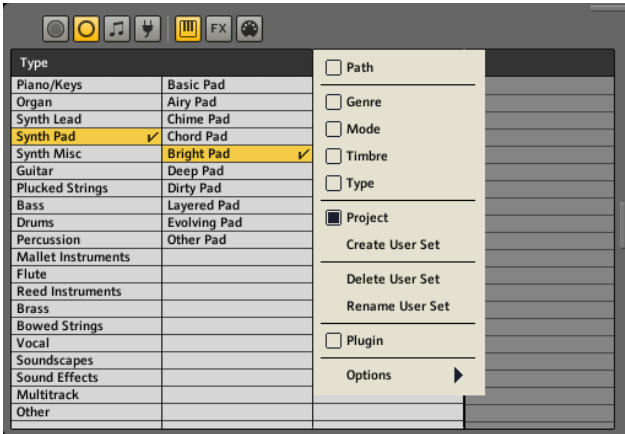
The fields of the META INFORMATION window are:

- ▶ The NAME field simply shows the name of the KoreSound. If you want to change it, enter a new one.

- ▶ The `RATING` field allows you to rate the KoreSounds by giving between 1 and 5 stars.
- ▶ The `COLOR` field allows you to associate a color with the KoreSound. This is also the color of the symbol displayed in the `CHANNEL INSERT` if the sound is opened.
- ▶ The `VENDOR` field shows the commercial vendor of the KoreSounds, if there is one.
- ▶ The `AUTHOR` field states the author of a KoreSound. Fill in your name for your own KoreSounds.
- ▶ The `BANKNAME` can display different things. If the KoreSound was derived from a defined bank of factory presets of the plug-in, you will set that bank name. This field is also used to denote the MultiSounds of KORE 2 and provide a special function for REAKTOR 5 KoreSounds. Have a look on Appendix A for more on this.
- ▶ The `PATH` field shows the folder on your file system where the KoreSound is saved. Please read the section about saving KoreSounds further down the text for more on this.
- ▶ The `COMMENTS` field can hold any information you want. Normally it is used to describe a KoreSound in terms of use and also notes any special interactive features.

Creating your own Attributes

In addition to the `STANDARD ATTRIBUTES` that are defined by `NATIVE INSTRUMENTS`, you can also create your own `ATTRIBUTES` and organize them in `USER SETS`.



As shown in the picture above, you can create USER SETS in the normal BROWSER view via the context menu of the ATTRIBUTES LIST. After creation, they populate the context menu, where you can choose them for display. They will stay empty, though, as long as they are not classed with ATTRIBUTES. This is only possible in EDIT mode:

Attribute Class		Project
Standard	Type	That evening
User	Project ✓	Her dark eyes ✓
	(Create new ...)	Can't you see
		Down
		Eleven
		Song #2
		(Create new ...)

As already described, you can reach the EDIT mode by clicking the EDIT button of the BROWSER or by choosing Save from the context menu of a KoreSound sitting in a CHANNEL INSERT.

In the ATTRIBUTE CLASS USER you find the USER SETS you have created. Create new USER SETS by clicking on the entry (CREATE NEW...) and typing in the name of the new USER SET via the keyboard of your computer.

Selecting the USER SET in the second column displays its ATTRIBUTES in the next. Here you can create new ATTRIBUTES by typing them in the first available field denoted by the entry (CREATE NEW...).

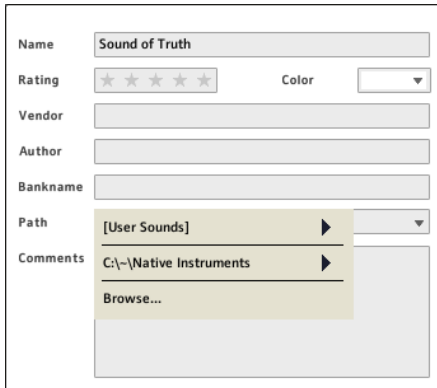
This system opens up a totally flexible world for organizing your KoreSound database in the way it works best for you. So if you think NATIVE INSTRUMENTS just didn't cut it with the included ATTRIBUTES SETS (how dare you!), just create your own.

Saving KoreSounds

You can save a KoreSound either by dragging and dropping it into the SEARCH RESULTS LIST of the BROWSER or by opening the context menu of the sound (right-click/Ctrl-click on the sound in the CHANNEL INSERT).

This leads you to the EDIT mode that we described in the previous sections of this chapter.

Before saving the KoreSound by leaving the EDIT mode you must specify the location the sound is going to be saved at. This is accomplished via the PATH field on the META INFORMATION section of the EDIT page.



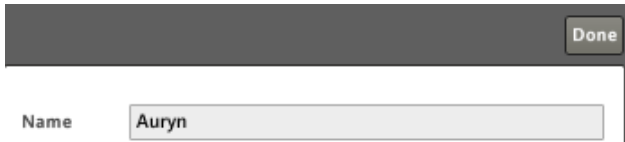
The screenshot shows the META INFORMATION section of the EDIT page. It contains several input fields: Name (Sound of Truth), Rating (5 stars), Color (dropdown), Vendor, Author, Bankname, Path, and Comments. The Path field is currently set to [User Sounds] and its dropdown menu is open, showing options: [User Sounds], C:\-Native Instruments, and Browse... The Comments field contains the text C:\-Native Instruments.

By clicking on the PATH field you open a menu with your location options.

- ▶ The USER SOUNDS entry opens a sub-menu with the available user Sounds folders as defined by the installed products.
- ▶ The second section of the menu offers Additional USER SOUNDS FOLDERS you can define in the DATABASE OPTIONS of KORE 2 (see chapter 3.3.5).

- ▶ The entry **BROWSE...** opens a standard file system dialog window for you to navigate to a location of your choice.

Depending on the kind of KoreSound and what you want to do with it, your options on this menu will differ. “Standard” user content will go into the **USER SOUNDS** folders or into your own folder structure defined by the **ADDITIONAL USER SOUNDS** folders. If you want to export KoreSounds from **KORE 2** for transfer to another computer or for swapping them with other **KORE 2** users, you can save them to a location of your choice via the **BROWSE...** entry. Any folder specified with this entry will also be added to the **ADDITIONAL USER SOUNDS** folders automatically.



When you are finished tagging the KoreSound with **ATTRIBUTES** and filling in the **META INFORMATION** click on **DONE** (to the far right of the **BROWSER**) and the KoreSound is saved in **KORE 2**'s database.

If you want to save a Performance as a KoreSound for nested use in future Performances choose *Save performance as Sound...* from the **FILE MENU** of the stand-alone or from the **GLOBAL MENU** of the plug-in. You will be greeted with the **BROWSER** in **EDIT** mode and the rest of the procedure is the same as with saving KoreSounds.



It is recommended to store your own KoreSounds in a limited number of folders. While you can use any folder to save KoreSounds, this will fragment the database. Also, monitoring a long list of folders decreases the search speed of the database.

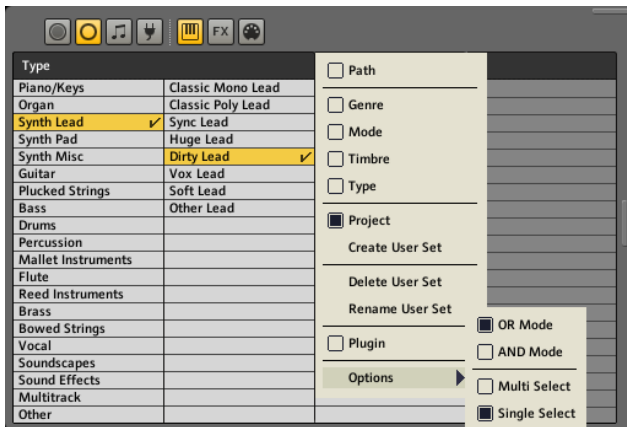


Try to use custom attributes instead of various folders in order to group your KoreSounds. For instance, if you want to have fast access to all KoreSounds used within a specific project, create an Attribute Class called Project and add entries for each project you are working on. Use these attributes to tag KoreSounds used in a project – you can then find them fast by using the Browser.

3.7.5 Advanced database operations

There are some advanced functions of the Browser we didn't touch on, yet.

Search modes



The *Options* you can choose from the context menu of the ATTRIBUTES LIST provide some additional functionality for your searches:

- ▶ OR MODE means that choosing multiple ATTRIBUTES leads to results that match at least one of the ATTRIBUTES.
- ▶ AND MODE with multiple ATTRIBUTES means that only hits matching all of the tagged ATTRIBUTES make it to the Search Results List.

- ▶ **MULTI SELECT** allows you to select multiple **ATTRIBUTES** within one **ATTRIBUTES SET**.
- ▶ **SINGLE SELECT** only allows a single **ATTRIBUTE** to be selected within an **ATTRIBUTES SET**.

Use these features to refine your searches. Sometimes you simply get too many or not enough hits and it can be productive to tweak the **SEARCH OPTIONS** for a better result.

Deleting KoreSounds

Name	Bank
Blues Harmonica	Kore 2.0 Factory Library
Cinematic Bassoon	Kore 2.0 Factory Library
Clarinet Prowler	Kore 2.0 Factory Library
Oboe Hypnosis	Kore 2.0 Factory Library
Oboe Simulator	Kore 2.0 Factory Library
Pied Bagpiper	Edit /
Sax In The City	Open /
Snake's Charming	Remove from Database /
Swelling Winds	Kore 2.0 Factory Library /
Woodwind Quintet	Kore 2.0 Factory Library

If you want to completely delete a **KoreSound** from the database, use the context menu of the **KoreSounds** on the **SEARCH RESULTS LIST**. Select the sound (you can also select multiple entries), right click on it (Mac: Ctrl-click) and choose **REMOVE FROM DATABASE** from the menu. This will delete the **KoreSound** from the database.

3.8 Audio and MIDI Components: Enhancing sounds



KORE 2 comes with a host of INTERNAL MODULES that you can use to produce, alter and process sound. The majority of these INTERNAL MODULES are audio effects but there also is a powerful set of MIDI-plug-ins that you can use to create or alter MIDI data.

3.8.1 Amplitude Mod

The AMPLITUDE MOD works as a tremolo. Via the Envelope Follower it can be dependent on the input signal's volume. This adds a great deal of flexibility to the effect, as you can control the speed of the modulation and the effect volume via the dynamics of the input signal.

Label	Function	Range	Unit
Static	Sets the balance between direct signal and effect.	0..100	%
Env. Amt	Sets the amount of control the Envelope Follower has over the effect signal's volume.	-100..100	%
Sync	Synchronizes the modulation to KORE 2's Central Clock.	On/Off	%
Ratel	Sets the frequency of the LFO.	0.1...10k	Hz

Label	Function	Range	Unit
Rate Env Amount	Sets the amount of control the Envelope Follower has over the LFO-rate.	-	
PhaseL/R	Introduces a phase set-off between the two modulation signals for the left and the right channel, respectively.	-180...180	deg
Threshold	Sets the input audio threshold level above which the modulation envelope is triggered.	0..100	%
Attack	Sets the time to reach maximum level of the modulation signal once the envelope is triggered.	0..200	ms
Release	Sets the time for the modulation signal to cease after the input signal falls below the threshold level.	0..800	ms

3.8.2 Auto Filter



The AUTO FILTER acts as a touch-controlled WahWah. This effect was very popular in Funk music of the 70ies, but can be used in a wide range of applications from funky synthetic bass tracks to filtered drum loops.

Label	Function	Range	Unit
Mix	Sets the balance between the dry, unprocessed signal and the "wet" (filtered) one.	0..100	%
Cutoff	Sets the filter's main frequency. According to the [Type] setting all frequencies below, around or above this frequency are passed to the output, while others are attenuated.	25..10000	Hz
Resonance Amount	Sets the sharpness of the filter's response peak. At higher values the filter slope becomes steeper and the cutoff frequency more accentuated.	0..100	%
Saturation Level	Sets the level where overdrive saturation will start to reduce the gain. At high resonances this particularly affects the range around the cutoff frequency. At a low saturation level the signal is saturated early while at high values higher signal peaks are possible.	-20..+20	dB

Label	Function	Range	Unit
Filter Type	<p>Crossfades between three operation modes. At low values the effect works as a low pass, filtering all frequencies above the cutoff frequency. At high values it becomes a high pass with inverted characteristics.</p> <p>In between the effect acts as a band pass, passing only frequencies around the cutoff frequency while attenuating all others.</p>	0..100	%
Depth	Amount of modulation of the Cutoff frequency by the envelope follower.	-100..+100	%
Threshold	Sets the input audio threshold level above which the modulation envelope is triggered.	0..100	%
Attack	Sets the time taken for the modulation signal to reach maximum level once the envelope is triggered.	0..200	ms
Release	Sets the time for the modulation signal to cease after the input signal goes below the threshold level.	0..800	ms

3.8.3 Beat Delay



This effect unit synchronizes delay times to the internal tempo. This can be either to an internal BPM value or to KORE 2's Master Clock. Feedback routing is also available, which provides cross-channel feedback and low pass/high pass filtering. Note: The internal delay buffer has a fixed maximum size, but KORE 2's tempo can vary over a wide range. Therefore, the buffer may be too small to provide long delay times at very slow tempos. If this happens, a lamp lights up to indicate a conflicting setting.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
FX Input	Switches the audio input on or off.	On/Off	
Tempo Sync	Switches between internal (off) and external (on) tempo synchronization. If on, KORE 2's master tempo is used. If off, the tempo is set by the BPM parameter.	On/Off	
Left Time (Numerator) Right Time (Numerator)	Sets the number of time units by which the left and right channel is delayed, respectively. The length of a time unit is controlled by [Left/Right Denominator].	1..64	

Label	Function	Range	Unit
Left Unit (Denominator) Right Unit (Denominator)	Sets the number of time units into which a bar of four quarter notes (beats) is divided, i.e., a value of 16 represent time units of sixteenth notes. The delay time is set as a multiple of those time units by adjusting the [Left/Right Numerator] control.	1..64	
Link Beats	Links the Delay times of the right delay to those of the left one.	On/Off	
Feedback	Sets the feedback signal amplitude as a percentage of the main signal.	0..100	%
Cross Feedback	Sets the amount of cross-feedback as a percentage of the main feedback signal. At high values the left channel feeds the right channel and vice versa. At low values each channel remains separate.	0..100	%
Low Cut High Cut	Sets the cutoff frequencies of the low pass/high pass filters modifying the feedback signal. Frequencies above/below the set cutoff are attenuated.	10..5000/ 100..25000	Hz

3.8.4 Cabinet Saturator



The CABINET SATURATOR acts as an overdrive unit with the distinct sound of a distorted speaker cabinet. With its flexible resonant filter section it can produce a wide range of interesting overdrive and distortion effects, be they subtle or harsh.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Drive	This is the gain control for the input signal. Turn up to get more overdrive.	0..60	dB
Hipass/Lopass Cutoff	The cutoff frequency of the high- and low-pass filters, respectively. Frequencies above/below the cutoff will be attenuated.	25..8000 80..25000	Hz
Hipass/Lopass Reso	Sets the sharpness of the filter's response peak. At higher values the filter slope becomes steeper and the cutoff frequency more accentuated.	0..100	%
Tilt	Controls two inverted shelving EQs before and after the saturation stage. Turning to the left amounts in more saturation at high frequencies. Turning to the right leads to more saturation at low frequencies.	-60..+60	dB
Volume	Output volume of the saturated signal.	-48..0	dB

3.8.5 Distortion



This effect produces a wide variety of distortion sounds. The integrated peak equalizer helps to emphasise the characteristic frequencies of the processed, distorted sound.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Drive	This is the gain control for the input signal. Turn up to increase the overdrive.	0..60	dB
EQ Center	The center frequency of the peak EQ.	25..12500	Hz
EQ Boost	Controls the gain of the peak EQ. Use it to push the [Center Frequency].	0..40	dB
Volume	Output volume of the distorted signal.		

3.8.6 Easy Chorus



The EASY CHORUS provides an easy to use combination of chorus, flanger and pitch modulation (i.e., vibrato). The modulation speed can be controlled as well as the effect intensity and modulation range.

Label	Function	Range	Unit
Mode	Menu for choosing among chorus, pitch modulation and flanger.		
Sync	Synchronizes the modulation to KORE 2's Central Clock.	On/Off	
Rate	Controls the modulation signal frequency.	0..10	Hz
Depth	Determines the range of the flanging effects (i.e., the difference between the highest and lowest points); with chorus, the amount of "animation;" and with pitch modulation, the amount of pitch deviation.	0..100	%
Intensity	Controls the amount of effect. In chorus and flanger mode this is the amount of feedback.	0..100	%
Stereo	Turns the stereo spread mode on or off	On/Off	

3.8.7 Easy Compressor



The EASY COMPRESSOR is a simple but powerful tool to control dynamic range. A compressor is a preamp with variable gain depending on the input signal. When the input signal exceeds the THRESHOLD, the gain goes down to reduce the output level. The amount of reduction depends on the RATIO control. For example, with a 4:1 ratio, a 4dB increase in the input level results in a 1dB output level increase. With an infinite (inf) RATIO, the output signal will not increase above the THRESHOLD, regardless of how much the input level exceeds the THRESHOLD.

Compression has many uses: You can use it to control filter resonance with synthesizers, compensate for singers with a poor microphone technique, and increase guitar sustain by reducing peaks and creating a more consistent level. However, restricting the peaks may make the average signal level seem softer. Use the OUT GAIN control to compensate by increasing the output level.

The compressor analyses the incoming signal to decide when to apply compression. You can influence this process with the ATTACK and RELEASE parameters.

ATTACK determines how fast the algorithm reacts to signals above the threshold level, while RELEASE sets how much time it takes for the compression to stop after the signal drops below the threshold. Optimum settings depend on the audio material being compressed; with drums, for instance, a long ATTACK time allows peaks to pass without compression,

thus preserving “punch” and a more natural sound. If these peaks overload subsequent stages, you might want a very short `ATTACK` time so the compressor can react quickly.

Note that even with the shortest `ATTACK`, the compressor still needs some time to analyse the signal. Activating the `LOOK AHEAD` button delays the audio by a very short amount (32 samples) so that the compression algorithm can foresee peaks before they happen, and be ready to process them the instant they occur.

Label	Function	Range	Unit
Threshold	Sets the level above which compression begins.	-48...0	dB
Ratio	Sets the amount by which the signal is compressed. At 1 there is no compression and the output signal equals the input signal. At the maximum setting signal levels are “clamped” to the threshold level (i.e., the compressor acts as a limiter).	1..[inf]	
Attack	Sets the time to reach maximum compression once a signal exceeds the threshold level.	0.1..10	ms
Release	Sets the time for compression to cease after a signal goes below the threshold level.	10..1000	ms
Look Ahead	The compressor delays the signal for a few ms, enabling the algorithm to “know” what is coming. This improves the clarity of transients in the sound, if wanted.	On/Off	
Out Gain	Controls the output level of the compressed signal.	-24..+24	dB

3.8.8 Easy Reverb



This reverb unit provides an easy to use reverb effect with only six macro controls. Internally, these are mapped to multiple parameters for ease of use.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Pre-Delay	Sets the time by which the incoming signal is delayed before it feeds into the main reverb effect.	0..200	ms
Size	Controls the size of the simulated reverb room, i.e., the reverb decay time.	1..100	
High Decay	Controls the reverb signal's frequency spectrum. High values reduce the amount of high frequency attenuation, resulting in a longer decay for high frequency bands.	0..100	%
High Cut	Sets the cutoff frequency of a low pass filter that shapes the reverb signal sound.	1..100	
Stereo	Sets the amount of stereo spread applied to the reverb signal.	0..100	%

3.8.9 Ensemble



The ENSEMBLE effect subtly thickens the incoming signal. Similar to a chorus effect, the delay time of two delay lines is constantly modulated.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Rate Common	Sets the frequency of delay time modulation.	0..8	Hz
Rate Offset	Controls the offset between two internal rate values, similarly to the [Depth Offset].	0..100	%
Depth Common	Controls the depth of the Ensemble effect; technically, this is the amount of delay time modulation.	0..100	%
Depth Offset	Controls the offset between two internal depth values; metaphorically, this controls the depth of the depth control.	0..100	%
High Cut	Sets the cutoff frequency of a low pass filter.	100..20000	Hz

3.8.10 Expander



The EXPANDER is a powerful tool for shaping the dynamics of a signal. You can think of it as a flexible gate effect. Technically, all signals below the THRESHOLD are attenuated by the amount set by the RATIO. By using this tool in the chain you can “expand” the level-range of your audio signal.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Threshold	Sets the level below which the expander takes effect.	-70...10	dB
Ratio	Controls the intensity of expansion. Turn to the left for no effect, a middle value leads to soft expansion and a high value means hard gating.	0..4	
Attack	Sets the time to reach maximum expansion once a signal falls below the threshold level.	0.1..10	ms
Release	Sets the time for expansion to cease after a signal exceeds the threshold level.	10..1000	ms
Out Gain	Controls the output level of the expanded signal.	0..+24	dB

3.8.11 Filterbank



The FILTERBANK effect splits the incoming audio signal into eight frequency bands, each with a bandwidth of 1.25 octaves (15 semitones). With SHIFT and LR SPLIT set to zero, the center frequencies are: 30Hz, 71Hz, 170Hz, 403Hz, 960Hz, 2282Hz, 5429Hz, 12912Hz. Each band also has a level slider to adjust individual levels before the bands are mixed back together.

The SHIFT control moves all center frequencies up and down by a specified number of semitones, while the LR SPLIT control creates a wider stereo image by sending alternate frequency bands slightly to the right or left of the stereo field.

At first look, the FILTERBANK may seem like a graphic equalizer. The ability to alter band levels, center frequencies and stereo imaging, allows dramatic sound shaping that is impossible with standard equalization techniques.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Shift	Alters the center frequencies of the eight bands simultaneously. Shift controls all frequencies up or down logarithmically (i.e., not in Hertz but in semitones) to maintain each band's relative width as they move through the frequency spectrum.	-48..+48	semitones
LR Split	Controls the offset of each band to the left or right channel. For the left channel the value is added to the Shift setting, and for the right channel, the value is subtracted. Experimenting with this control produces very audible stereo effects.	-24..+24	semitones
Band 1..8 Level	Sets each band's output level.	[-inf]..0	dB
Gain Adjust	Controls the amount of amplification applied to the overall mixed output signal. As a band's level can only be lowered with the level sliders, this control can compensate for any apparent level loss.	0..20	dB

3.8.12 Flanger



The FLANGER is a classic modulation effect that produces a metallic, swooshing sound. It is very versatile and can be used on a wide range of different material. It works by splitting the input signal into two paths and delaying one of them by a very short amount. This produces a comb filter effect.

Label	Function	Range	Unit
Inverse	Phase inversion of one of the split signal parts. This produces a different sound, which acts on the signals of the complete effect, as opposed on [Feedback] with negative values (see below).	On/Off	
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Center	The higher the value the shorter the internal delay times leading to a shift of the resulting comb filter effect to higher frequencies. This interacts with the modulation, as it is added to this value (have a look at the Modulation Meter).	0..100	%
Mod Sync	Synchronizes the modulation oscillator to KORE 2's time base.	On/Off	
Rate	If [Mod Sync] is off, this controls the frequency of the modulation oscillator.	0.04..25	Hz

Keyboard shortcut	Function	Range	Unit
Depth	Controls the intensity of modulation applied to the delay time.	0..100	%
Modulation Meter	Shows the delay time resulting from the setting of [Center] and the added modulation signal.		
Phase L/R	Changes the phase of the left and right signal paths, respectively.	-180..+180	deg
Feedback	Sets the amount of Feedback, i.e. how much of the output signal is fed back into the input. With a negative Feedback the output of the internal delay line is inverted before it is fed back into the input. This leads to a different set of peaks and drops in the spectrum.	-100..100	%
Low Cut High Cut	Sets the cutoff frequencies of the low pass/high pass filters modifying the feedback signal. Frequencies above/below the set cutoff are attenuated.	25..1000/ 10..20000	Hz

3.8.13 Flex Verb



This reverb unit provides an extended parametric control of reverb with PRE-DELAY, early and late reflections, and separate control of low and high frequency decay times.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Pre-Delay	Sets the time by which the incoming signal is delayed before it is fed into the main reverb effect.	0..200	ms
Size	Controls the size of the simulated reverb room, i.e., the reverb decay time.	1..100	
Diffusion	Sets the amount of diffusion applied to the reverb signal. With lower values, the reverb sound becomes more echo-like.	0..100	%
Early/Late	Controls the balance between the early reflections and the main reverb signal.	0..100	%
Low Cut		15..5000	Hz
Hi Cut Frequency		200..25000	Hz

Label	Function	Range	Unit
Decay		0..100	%
Resonance		0..100	%

3.8.14 Freq Shifter

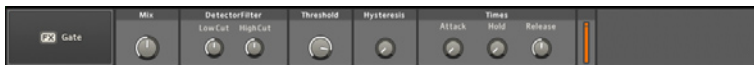


The FREQUENCY SHIFTER is reminiscent of the early days of electronic music. Technically, this processor shifts the incoming signal's frequency spectrum linearly (i.e., all frequencies are shifted by the same number of Hertz). This alters the structure of the sound's harmonics, because the energy is distributed logarithmically throughout the spectrum. If that's a hard concept to grasp, don't worry: There aren't a lot of controls, and a little experimentation will tell you all you need to know.

The SHIFT AMOUNT works in conjunction with the RANGE value to allow subtle harmonic enhancements as well as massive displacements. Negative values shift the frequency downwards (If the spectrum shifts below 0Hz, it is mirrored back into the audible range). The FEEDBACK control determines how much of the shifted signal is routed back to the effects input. High values can produce effects similar to a flanger.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Range	Menu for choosing the maximum range of the frequency shift, as multiplied by the [Amount] parameter value.	+/-1..+/-10000	Hz
Amount	Alters the amount of shifting as percentage of the maximum value set by Range. Negative values shift the frequency downwards.	-[Range]..+[Range]	Hz
Stereo Split	When enabled the right channel signal is frequency shifted in the opposite direction of the left channel, creating a strong stereo effect.	on/off	
Feedback	Sets the amount of shifted output signal that's mixed back to the input.	0..100	%

3.8.15 Gate



Apart from the classic studio use as a noise gate, this effect has a large number of application areas including chopping up beats using the filter for gating defined frequency ranges.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Detector Filter Low Cut	Cutoff frequency of the 2-pole high pass filter of the level detector. Can be used to avoid opening of the gate by low frequencies.	10...5000	Hz
Detector Filter Hi Cut	Cutoff frequency of the 2-pole low pass filter of the level detector. Can be used to avoid opening of the gate by high frequencies.	100..20000	Hz
Threshold	Sets the level at which the Gate opens.	-80..10	dB
Hysteresis	Determines by how much the threshold for closing is lower than the threshold for opening.	0..20	dB
Attack	Sets the time it takes for the gate to open.	0..200	ms
Hold	Controls the time the gate will stay open, regardless of the signal falling below threshold.	0..1000	ms
Release	This is the time the Gate takes to close completely after the signal has fallen below threshold.	0..2000	ms

3.8.16 Grain Shifter



At the heart of the GRAIN SHIFTER lies a relatively simple pitch shifting effect. But due to the granular nature and the feedback line this effects unit can produce lovely sounds. It produces rich sounding artefacts that can be used creatively to produce wild results and the GRAIN RATE offers a wide variety of amplitude modulation effects. From swooshing pitch shift waves to metallic mayhem – this unit is perfect for creative sound design sessions.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Shift Coarse	Common coarse pitch shift for the left and the right channel.	-24..+24	semi-tones
Shift Fine	Common fine pitch shift for the left and the right channel.	-0.5..+0.5	semi-tones
Spread Coarse	This sets the coarse difference in pitch shift between the left and right channels.	-24..+24	semi-tones

Label	Function	Range	Unit
Spread Fine	This sets the fine difference in pitch shift between the left and right channels.	-0.5..+0.5	semi-tones
Spread Phase	Controls the phase offset between the grains used to create the pitch shifted signals in the left and right channel.	-90..+90	deg
Grain Rate	This knob sets the length of the produced grains. Technically it is the rate of the granular delay buffer readout.		
Grain Reverse	When this button is active, all grains are played back in reverse.	On/off	
Feedback	Sets the amount of feedback, i.e. how much of the output signal is fed back into the input.	-100..100	%

3.8.17 Graphic EQ



The GRAPHIC EQUALIZER divides an editable part of the frequency spectrum into eight bands of equal width (based on a percentage of the overall selected frequency spectrum). Each band's gain can be adjusted separately to boost or attenuate specific parts of the sound's frequency spectrum. This can be useful to integrate sounds into a mix or to change the sound's character.

Label	Function	Range	Unit
Low End	Sets the low end of the modified frequency spectrum, used as center frequency of the first band.	20..8000	Hz
Width	Determines the width of the modified frequency spectrum. This value, divided by eight, also defines the width of each band.	1..12	Octaves
Gain 1..8	Sets the gain change of each band, respectively.	-20..+20	dB
Gain Adjust	Sets the amount of gain correction applied to the final output signal, compensating for any volume loss that occurs while attenuating the bands.	-20..+20	dB

3.8.18 Harmonic Shaper



The HARMONIC SHAPER is a versatile processor that covers a wide range of waveshaping application areas. You can use it as an Exciter, adding subtle harmonic content to signals that sound too dull. It can also produce nice tape- and tube-saturation effects. When fed with simple, synthetic waveforms, it works as a classical waveshaper, leading to a variety of different tones. A great deal of its flexibility lies in the fact that you can exclude low-frequency content from being processed via the SPLIT FREQUENCY control.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Split Frequency	The input signal is split into two frequency bands, the lower of which is not processed by the waveshaper. You can mix it into the shaped signal via the Tone control.	15..1500	Hz
Drive Gain	Controls the gain at the input stage of the waveshaper. This sets the amount of non-linearity.	-24..+24	dB

Label	Function	Range	Unit
Drive Dynamic	Determines the intensity of control the envelope follower has on the input gain. Turn it to the left to reduce gain for higher levels (compression). Turn it to the right to increase gain for higher levels (expansion).	-24..+24	dB
Harmonics Odd/Even	This controls the waveshaping curve. The knob crossfades between symmetric distortion creating 3rd, 5th, 7th, etc. (odd) harmonics and asymmetric distortion creating 2nd, 4th, 6th, etc. (even) harmonics.	0..100	%
Distortion Meter	This meter shows the amount of harmonic distortion.		
Tone	The effect signal has two components: The signal at the lowpass output of the frequency splitter and the waveshaped signal. This dial crossfades between these two signals.	0..100	%
Volume	Controls the level of the effect signal before it is mixed with the dry signal	-24..+24	dB

3.8.19 Limiter



The **LIMITER** restricts the level of all signals to a particular reference level (in this case, 0dB). It is equivalent to a compressor (see above) with an infinitely high compression ratio, or conceptually like the governor on a motor that restricts the maximum number of revolutions per minute.

Limiters are commonly used to prevent peaks from overloading subsequent stages. They can also serve as processors to create a louder, more “squashed” sound. Increasing the **INPUT GAIN** amplifies the signal reaching the limiter, resulting in a stronger limiting effect. Excessive amounts of gain can cause distortion as the limiter attempts to limit more and more of the signal.

Like a compressor, the limiter analyses the incoming signal to calculate how much limiting to apply. The **RELEASE** knob controls how fast the algorithm recovers from maximum limiting. Activating the **LOOK AHEAD** button delays the audio by a very short amount (32 samples) so that the limiting algorithm can foresee peaks before they happen, and be ready to limit them to the threshold instantly.

Label	Function	Range	Unit
In Gain	Sets the amount of amplification or attenuation applied to the incoming level before it is limited. Increased Gain leads to a stronger limiting effect.	-24..24	dB
Release	Sets the time used to recover from maximum limiting.	10..1000	ms
Look Ahead	Switches the Look Ahead feature on or off. This allows the limiter algorithm to operate more precisely, but the tradeoff is a fixed delay of 32 samples (under 1 millisecond at 44.1kHz).	on/off	
Out Gain	Sets the amount of amplification or attenuation applied to the limited signal. This also shifts the output reference level where limiting occurs. For example, if set to -10dB, even though the limiter clamps the signal internally to 0dB, the next stage will "see" all signals clamped.	-24..24	dB

3.8.20 Lo-Fi



This effect reduces a signal's fidelity by lowering its sample rate and virtual bit resolution (it does this virtually; the system sample rate is maintained). Both processes result in distortion artefacts, similar to those found in the older 8- and 12-bit samplers of the 80s.

Besides the main settings (SAMPLE RATE and BIT DEPTH), there are some fine-tuning controls. JITTER and DITHER apply a random modulation to the virtual

sample rate and the bit quantization, respectively. The Offset parameter compensates for volume losses that can occur at low bit depth settings.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal and the wet, processed signal. Turning the control fully counter-clockwise results only in dry sound, fully clockwise gives wet sound only and centering the control gives an equal mix of both.	0..100	%
Down-Sampling Sample Rate	Sets the virtual sampling rate. Low rates replace the high frequencies of the incoming signal with distortion artifacts.	50..48000	Hz
Down-Sampling Jitter	Controls the depth of random modulation applied to the virtual sampling rate. High jitter values make the Sample Rate frequency less audible; the distortion artifacts remain.	0..100	%
Quantizes Bit Depth	Sets the virtual bit depth. Low values reduce the resolution used to encode different levels of the signal, with lower values giving a grittier, dirtier sound.	1..20	Bits
Quantizes Dither	Controls the depth of a random modulation that shifts the bit quantization grid. If the Offset is greater than 0, high Dither values can result in output noise even if there is no input signal.	0..100	%
Quantizes Offset	Offsets the bit quantization grid. At low virtual bit depth settings, adjusting the Offset allows even very low level input signals to generate a quantized output.	0..100	%

3.8.21 Mic Conditioner



The Mic CONDITIONER assists you when you plug a microphone directly into KORE 2. Use it to manipulate phase, filter out unwanted low-frequency content and correct phase shifts between channels via the two delay lines. Furthermore, the Mic CONDITIONER provides facilities for working on recordings produced by the mid-side recording technique. This is a special way of stereo recording that allows manipulation of the stereo width after the recording process.

Label	Function	Range	Unit
Invert L/R	Inverts the phase of the left or right channel, respectively.	On/Off	
High-pass L/R	Switches the high-pass filter for the respective channel on or off.	On/Off	
High-pass Frequency	Sets the threshold below which the incoming signal is attenuated.	10..500	Hz
High-pass Poles	Crossfades between a 2-pole and a 4-pole filter. The number of poles defines the steepness of the filter cutoff slope: At low values the 2-pole setting is used with a transition band slope of 12 dB per octave; at high values the 4-pole setting provides a slope of 24 dB per octave.	0..6	
Left/Right Delay Coarse	Controls the coarse delay time for the respective channel.	0..495	ms

Label	Function	Range	Unit
Left/Right Delay Fine	Controls the fine delay time for the respective channel.	0..5	ms
MS to LR On	Switch this on if you are working on a recording that used the mid-side technique. If on, the channels will be transformed to a stereo signal.	On/Off	
MS to LR S Amount	Sets how much of the middle-signal of the mid-side recording is mixed into the sum. This controls the apparent stereo width.	-24..+6	dB

3.8.22 Mod Delay



The MOD DELAY unit modulates the delay time using an internal LFO. Additionally, the delayed signal can be filtered and fed back to the input at an adjustable level.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Delay Time	Sets the effect unit's initial delay time. The internal LFO modulates this value.	0..1500	ms
Delay Time LR Offset	Controls the delay time balance as a percentage of the initial delay time. Negative values decrease the left delay time while the right delay increases by the same amount. Positive values create the opposite effect.	-33..+33	%
Modulation Sync	Synchronizes the frequency of the LFO to KORE 2's timebase.	On/Off	
Modulation Rate	Adjusts the delay time modulation speed, i.e., the internal LFO's frequency.	0..10	Hz
Modulation Depth	Sets the amount of modulation as a percentage of the delay time.	0..100	%
Modulation LR Phase	Sets the phase offset of the LFO modulating the right or left channel delay times, respectively. At the maximum setting the LFO signal is 180° out of phase.	0..180	De-grees
Feedback Amount	Sets the level of the delayed signal that feeds back to the effects input.	0..100	%
Cross Feedback	Sets the level of the delayed signal that feeds back into the opposite channel (i.e., the left channel's output into the right channel's input and vice versa), as a percentage of the main feedback amount.	0..100	%
Inverse Feedback	Turns the feedback signal phase inversion on or off.	On/Off	
Filter Low/High Cut	Sets the cutoff frequency of the low pass/high pass filters that modify the delayed signal. Frequencies below/above are attenuated with a slope of 12 dB per octave.	10..5000/ 100..25000	Hz

3.8.23 Multi Compressor



This multi-band compressor combines filters and compressors. The filters split the incoming audio signal into four frequency bands: low (below 200 Hz), midlow (200.. 1000 Hz), mid-high (1000 .. 5000 Hz) and high (above 5000 Hz). Each band has a dedicated compressor, which is similar to a traditional, single band compressor. With standard compression, the compressor responds to dynamics changes happening in any frequency band. Multi-band compression can give more subtle effects, because dynamic changes in one frequency band do not influence other frequency bands. For example, it is possible to compress a drum kit's kick drum, but leave the cymbals untouched.

The controls are like those of the **EASY COMPRESSOR** (see above), except that each band has its own **GAIN** and **RATIO** controls. The minimum **RATIO** setting gives no compression. At the maximum setting the compressor behaves like a limiter. **GAIN** can even out the levels for the different bands. For example, if one frequency range is compressed heavily, you will probably want to turn up its **GAIN** to compensate. As with the **EASY COMPRESSOR**, the **OUT GAIN** parameter can compensate for any overall loss of volume.

Each compressor analyses the incoming signal to decide when to apply compression, but you can influence this process with the **ATTACK** and **RELEASE** parameters. **ATTACK** determines how fast the compression algorithm

reacts to signals above the threshold level, while **RELEASE** sets how much time it takes for the compression to stop after the signal drops below the threshold. Optimum settings depend on the audio material being compressed. Longer **ATTACK** times let through more percussive transients, but with the trade off of letting peaks pass that might distort subsequent stages. Shorter **RELEASE** times can work well with percussive sounds. When processing more complex or sustained material, **RELEASE** times have to be longer. Note that even at the shortest **ATTACK** time, the compressor needs some time to analyse the signal and react to it.

Activating the **LOOK AHEAD** button delays the audio by a very short amount (32 samples) so that the compression algorithm can foresee peaks before they happen, and be ready to process them instantly.

Label	Function	Range	Unit
Threshold	Sets the level above which compression begins.	-48...0	dB
Gain L, Gain LM, Gain HM, Gain H	Sets the amount of post-compression amplification for each band.	-24...+24	dB
Ratio L, Ratio LM, Ratio HM, Ratio H	Sets the amount by which the signal is compressed. At 1 there is no compression and the output signal equals the input signal. At the maximum setting signal levels are “clamped” to the threshold level (i.e., the compressor acts as a limiter).	1...[inf]	

Label	Function	Range	Unit
Attack	Sets the time to reach maximum compression once a signal exceeds the threshold level.	0.1..10	ms
Release	Sets the time for compression to cease after a signal goes below the threshold level.	10..1000	ms
Look Ahead	Switches the Look Ahead feature on or off. This allows the compressor algorithm to operate more precisely, but the tradeoff is a fixed delay of 32 samples (under 1 millisecond at 44.1kHz).	on/off	
Out Gain	Controls the overall amount of amplification applied to all bands. It is both post compression and post-gain control.	-24..+24	dB

3.8.24 Multimode Filter



This effect provides several filter characteristics that can be blended into each other for specific tasks. While **CUTOFF** and **RESONANCE** control the filter's center or cutoff frequency and its slope, the main mode can be controlled by the **TYPE** knob, cross-fading from a low pass filter over a band pass response to a high pass filter. Additionally, the number of **POLES**, which define how rapidly the response changes past the **CUTOFF** frequency, can

be adjusted (more poles creates a steeper response slope). Finally, you can set the threshold at which the signal will be driven into saturation.

Label	Function	Range	Unit
Mix	Sets the balance between the dry, unprocessed signal and the “wet” (filtered) one.	0..100	%
Cutoff	Sets the filter’s main frequency. According to the [Type] setting all frequencies below, around or above this frequency are passed to the output, while others are attenuated.	25..25000	Hz
Resonance Amount	Sets the sharpness of the filter’s response peak. At higher values the filter slope gets steeper and the cutoff frequency becomes accentuated.	0..100	%
Resonance Saturation Level	Sets the level where overdrive saturation will start to reduce the gain. At high resonances this particularly affects the range around the cutoff frequency. At a low saturation level the signal is saturated early while at high values higher signal peaks are possible.	-20..+20	dB
Type (LP-BP-HP)	Crossfades between three operation modes. At low values the effect works as low pass, filtering all frequencies above the cutoff frequency. At high values it becomes a high pass with inverted characteristics. In between the effect acts as a band pass, passing only frequencies around the cutoff frequency while attenuating all others.	0..100	%

Label	Function	Range	Unit
2-pole – 4-pole	Crossfades between a 2-pole and a 4-pole filter. The number of poles defines the steepness of the filter cutoff slope: At low values the 2-pole setting is used with a transition band slope of 12 dB per octave; at high values the 4-pole setting provides a slope of 24 dB per octave.	0..100	%
4-pole Spread	Sets the amount of cutoff frequency spreading if the effect acts as 4-pole filter. Internally, this mode is achieved by feeding the signal of a 2-pole filter into another 2-pole unit. At high values the two units' cutoff frequencies are spread around the main cutoff. This results in a reduced resonant peak.	0..6	semi-tones

3.8.25 Parametric EQ



The PARAMETRIC EQUALIZER divides the frequency spectrum into four bands. Each band's gain can then be adjusted separately to boost or attenuate specific parts of the sound's frequency spectrum.

This can be useful to make a sound audible in a mix or to change the sound's character.

With the PARAMETRIC EQ each band's frequency can be controlled individually. The lowest and highest bands are shelf equalizers: All frequencies below/above the one adjusted are affected by the respective gain control. The

two middle bands are peak equalizers where the gain changes apply to a band around a center frequency with controllable bandwidth.

Label	Function	Range	Unit
Low Gain	Sets the amount of volume change applied to the lowest band.	-20..+20	dB
Low Frequency	Sets the frequency of the low shelving equalizer. All frequencies below this frequency are modified by the equalizer, i.e., their gains are changed according to the [Low Gain] control.	2..4000	Hz
Mid 1 Gain Mid 2 Gain	Sets the amount of volume change applied to the two middle bands respectively.	-20..+20	dB
Mid 1 Frequency Mid 2 Frequency	Sets the center frequencies of the two middle bands, respectively. All frequency gain around these center frequencies – in a range depending on the [Mid 1/2 Bandwidth] controls – is changed by an amount controlled by the [Mid 1/2 Gain] controls.	40..8000/ 80..16000	Hz
Mid 1 Width Mid 2 Width	Sets the width of the two middle frequency bands respectively.	0.1..4	Octaves
High Gain	Sets the amount of volume change applied to the highest band.	-20..+20	dB
High Frequency	Sets the frequency of the high shelving equalizer. All frequencies above this frequency are modified by the equalizer, i.e. their gain is changed according to the [High Gain] control.	100Hz... 20kHz	Hz

3.8.26 Pattern Delay



The PATTERN DELAY is an especially clever echo device that enables you to work with delays as you would when using a step-sequencer. Define the time-grid of the steps with the UNIT knob and set the position of the four delay taps on the PATTERN GRID. Individual FEEDBACK, PAN and LEVEL controls for every “track” of the pattern are also provided.

This effect is well-suited for altering drums and percussion, but be creative and try it on anything else for interesting rhythmic echoes.

Label	Function	Range	Unit
Mix	Sets the balance between the dry, unprocessed signal and the “wet” (filtered) one.	0..100	%
FX In	Switches the signal input on or off.	On/Off	
Delay Unit	Sets the time base of the pattern grid. This is the time-unit for one step. At a Unit of 1/8 the grid has a length of two bars.	1/64..1/8	Bars
Delay Fine	Fine tuning of the time base of the grid. This can be used to produce shuffle effects.	-33..+33	%

Label	Function	Range	Unit
Pattern Grid	Sets one delay tap per track. The delay tap will sound at that position on the time grid.		
Feedback	Sets the feedback level for the taps individually or on a global level.	-60..0	dB
Pan	Controls the individual positions of the taps in the stereo-field from completely left (-100%) to completely right (+100%).	-100..+100	%
Level	Sets the output level for each tap individually.	-60..0	dB
Filter Low/High Cut	Sets the cutoff frequency of the low pass/high pass filters that modify the delayed signal. Frequencies below/above are attenuated with a slope of 12 dB per octave.	10..5000/ 100..25000	Hz

3.8.27 Phaser



The PHASER adds a swirling and animated effect to the signal. It is somewhat similar to the FLANGER, but generally warmer sounding and without the metallic aspects. It works by delaying the input signal by a minuscule amount and mixing it with the original. This leads to slight differences in the phase between input and effects signal.

Label	Function	Range	Unit
Mix Dry-Wet	Sets the balance between the dry, unprocessed signal and the “wet” (filtered) one.	0..100	%
Center	Changes the cutoff frequency of the internal allpass filters of the Phaser, leading to a shift in phasing frequencies. This interacts with the modulation, as it is added to this value (have a look at the Modulation Meter).	0..100	%
Modulation Sync	Synchronizes the frequency of the LFO to KORE 2’s time base.	On/Off	
Modulation Rate	Adjusts the delay time modulation speed, i.e., the internal LFO’s frequency.	0..10	Hz
Modulation Depth	Sets the amount of modulation as a percentage of the delay time	0..100	%
Modulation LR Phase	Sets the phase offset of the LFO modulating the right or left channel delay times, respectively. At the maximum setting the	0..180	De-grees
Color Feedback	Feeds the output of the chain of allpass filters back into its input leading to a shift in phasing frequencies.	-100..+100	%
Color Bandwidth	This influences the way the phase rotation changes with higher frequencies leading to a different set of peaks and dips in the spectrum. Higher settings spread the frequencies at which the peaks and dips sit.	0..100	%
Color Low Cut	Sets the cutoff frequency of a lowpass filter in the chain of allpass filters. Use this to block out unwanted low frequency resonances.	25..800	Hz
Invert Mix	If on, the processed signal is phase-inverted before being mixed with the input.	On/Off	

3.8.28 Rooms



This reverb unit specializes in room reflections. It is an efficient solution when long reverberation isn't needed.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Pre-Delay	Sets the time by which the incoming signal is delayed before it feeds into the main reverb effect.	0..50	ms
Pre-Delay LR Offset	Sets the stereo position of the pre-delayed signal. Negative values decrease the left channel delay time (as a percentage of the main delay time) while increasing the right channel time. Positive values create the opposite effect.	-100 ... +100	%
Reverberation Size	Controls the size of the simulated reverb room, which equals the decay time of the reflections.	1..100	
Reverberation Diffusion	Sets the amount of diffusion applied to the reverb signal. With lower values you'll hear more discrete reflections in the overall sound.	0..100	%
Low Decay High Decay	Sets the decay time of the reverb signal's low and high frequency bands. A higher value results in a longer reverb time for the respective frequency band.	0..100	%
Stereo	Sets the effect signal's stereo width between mono (0%) and full stereo (100%).	-20..+20	dB

3.8.29 Rotor



This effect, the same one used in NATIVE INSTRUMENTS' acclaimed B4 "virtual organ," simulates the effect of miking a rotating speaker. It produces the classic stereo-swirling sound you know from a lot of 70s rock music.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Fast	Chooses between the two speeds of the Rotor, that are defined via the [Slow] and [Fast] knobs.	On/Off	
Acceleration	Sets the time it takes the Rotor to spin from slow to fast.	0..2	s
Slow	The Slow speed sets the rotational speed of the rotor when the [Fast] switch is off.	0..2	Hz
Fast	The Fast speed sets the rotational speed of the rotor when the [Fast] switch is on.	0..12	Hz
Intensity	Controls the intensity of the effect. Think of it as the distance of the mics to the Rotor speaker.	0..100	%

Label	Function	Range	Unit
High Cut	Sets the cutoff frequency of a shelving high-pass filter. All frequencies below this value are attenuated.	500..16000	Hz
Low-High	This controls the balance between the treble and bass speaker outputs. When turned all the way to the right you hear only the treble rotor. Fully left and only the bass rotor is heard. With the knob centered you get an even mix of the two rotors.	-100..+100	%
Spread	The Spread setting determines the difference between the left and right virtual microphone signals by moving the microphones away from each other by a certain distance. This provides a perceived "width" or stereo spread when the Rotor is spinning. With Spread set to minimum, both mics are in the same place. As Spread is increased they move around the speaker cabinet in a circle, but in opposite directions. With Spread set to maximum they are at opposite sides.	-180..+180	deg

3.8.30 Space Reverb



This reverb unit provides an extended parametric control of reverb with pre-delay, early and late reflections, as well as separate control of low and high frequency decay times.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..100	%
Pre-Delay Time	Sets the time by which the incoming signal is delayed before it is fed into the main reverb effect.	0..200	ms
Pre-Delay LR Offset	Sets the pre-delayed signal's stereo position. Negative values decrease the left channel delay time (as a percentage of the main delay time) while increasing the right channel time. Positive values create the opposite effect.	-100 ... +100	%
Reverberation Size	Controls the size of the simulated reverb room, i.e., the reverb decay time.	1..100	
Reverberation Diffusion	Sets the amount of diffusion applied to the reverb signal. With lower values, the reverb sound becomes more echo-like.	0..100	%
Reverberation Early/ Late	Controls the balance between the early reflections and the main reverb signal.	0..100	%
Low Decay High Decay	Sets the decay time of the low/high frequency reverb signal bands. A high value results in a longer reverb time of the respective frequency band.	0..100	%
Low EQ High EQ	Sets the amount of cut or boost applied to the low/high frequency reverb signal bands with a shelving equalizer.	-20..+20	dB

3.8.31 Stereo Chorus



This effect implements a standard stereo chorus/flanger unit: The two input signals are delayed by a small amount, and the delay times are constantly modulated.

Label	Function	Range	Unit
Mix	Controls the balance between the dry, unprocessed signal (at the left) and the wet, processed signal (at the right).	0..1	
Delay Tune	Sets the tuning of the effect; technically, this adjusts the effect's delay time.	50..10000	Hz
Delay LR Offset	Controls the difference between delay times of the left and right channel. At negative values the left channel delay is shorter; at positive values the right channel delay time is shorter. At mid position both use the same delay time.	-100 ... +100	%
Modulation Syn	Synchronizes the frequency of the LFO to KORE 2's time base	On/Off	
Modulation Rate	Adjusts the delay time modulation speed, i.e., the internal LFO's frequency.	0..10	Hz
Modulation Depth	Sets the amount of modulation as a percentage of the delay time.	0..100	%

Label	Function	Range	Unit
Modulation LR Phase	Sets the phase offset of the LFO modulating the right or left channel delay times, respectively. At the maximum setting the LFO signal is 180° out of phase.	0..180	<i>Degrees</i>
Feedback Amount	Sets the amplitude of the delayed signal that is fed back to the effects input. High settings result in flanging sounds.	0..0,995	
Inverse Feedback	Turns phase inversion of the feedback signal on or off.	On/Off	

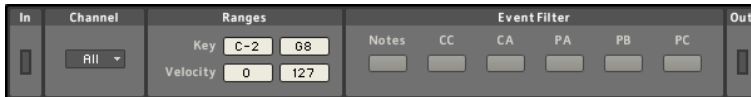
3.8.32 Stereo Mix



The STEREO MIX is a very useful utility as well as an effect. It enables you not only to control the left/right balance of a stereo signal and to swap the channels, but it also allows you to split the signal into two frequency bands and map those bands into the stereo spectrum.

Label	Function	Range	Unit
Balance	Controls the level of the left or right channel. At -1, only the left channel can be heard; if +1, only the right channel can be heard.	-1..+1	
L/R Swap	If on, the left and right channels are swapped.	On/Off	
Split Frequency	Controls the frequency at which the input signal is split into two bands.	50..12500	Hz
Lower/Upper Pan	Sets the stereo position of the lower or upper bands, respectively.	-1..+1	
Lower/Upper Width	Controls the stereo width of the lower/upper bands, respectively. A value of 0 means centered, a value of 2 means far to the side.	0..2	

3.8.33 MIDI Filter



The MIDI FILTER provides an easy way to filter out unwanted MIDI data at any point in the SOUND MATRIX. You can define key and velocity ranges to allow only parts of the note message stream through. Also, there are dedicated filters for various MIDI event types. This MIDI plug-in can be very handy when setting up advanced KORE 2 Performances, as you have

full control over the type and range of MIDI data reaching the different plug-ins used in the Performance.

Whether the MIDI filter receives any MIDI data and on which MIDI channel the data will be received depends on the CHANNEL SELECT and INPUT SOURCE settings of the Sound it belongs to. Please read chapter 3.4 for details about how to use the EDIT AREA.

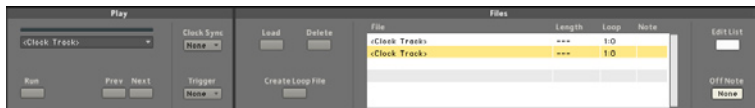


Internal MIDI plug-ins are handled in the same way as any other device in KORE. This means you can save them as a KoreSound to recall their settings at a later stage.

Label	Function	Range	Unit
In	The MIDI Input Activity Meter flashes when MIDI data passes the input of the plug-in.		
Channel	Use this Menu to select which MIDI channel is processed. NONE effectively switches the Filter off, ALL processes all 16 channels and a number between 1 and 16 filters the respective MIDI channel.	All, None, 1...16	
Low / High Pitch Filter	Use these to specify the lower and upper margins for the MIDI note values that the filter will let through. Click with the mouse and drag up or down to change the values. Example: if you choose a low Pitch Filter value of C2 and a high value of A6, all MIDI notes below C2 and above A6 will be discarded, and all notes between the two values (including C2 and A6) will pass through.	G-2...G8	

Label	Function	Range	Unit
Low / High Velocity Control	Use these to specify the lower and upper margins of the MIDI velocity values that the filter will let through. Click with the mouse and drag up or down to change the values. For example: if you choose a low velocity Filter value of 32 and a high value of 96, all MIDI notes with a velocity below 32 and above 96 will be discarded, and all notes with a velocity between the two values will pass through.	0...127	
Event Filter	If these filter buttons are active (= white) the respective MIDI events are blocked. Notes stands for MIDI note events CC for continuous controller (like mod-wheel), CA stands for channel aftertouch, PA for polyphonic aftertouch, PB is pitch bend and PC is program change data.		
out	The MIDI Output Activity Meter flashes when MIDI data passes the output of the plug-in.		

3.8.34 MIDI Player



The MIDI PLAYER offers flexible facilities for playback and looping of MIDI files. You can load MIDI files from disk, trigger and stop playback via note messages, set loop points and create LOOP TRACKS for controlling downstream MIDI plug-ins and sequencers.

In respect to MIDI data, KORE 2 is strictly hierarchical. MIDI data flows from top level down through the SOUND MATRIX. The highest instance is the global clock of the stand-alone or the host clock, when KORE 2 is running as a plug-in, respectively. It has to run for any MIDI PLAYER to be started. But the hierarchy doesn't end there. A MIDI PLAYER sitting higher in the SOUND MATRIX hierarchy than another imposes the same control over the ones nested further down. This means, if you have a MIDI PLAYER sitting on the top level of your Performance with some other MIDI PLAYERS or KoreSounds containing plug-ins that run sequencers, the top level MIDI PLAYER has to run for the downstream sequencers to run.

The MIDI PLAYER can also be controlled by an upstream STEP SEQUENCER component and of course this works the other way around, too.

Another intended use of this plug-in is a reset facility for downstream MIDI PLAYERS and Sounds that use sequencers or arpeggiators within of their plug-ins. By defining LOOP TRACKS with arbitrary lengths in the player any sequencer or MIDI PLAYER lying downstream of the LOOP TRACK is reset



Internal MIDI plug-ins are handled in the same way as any other device in KORE. This means you can save them as a KoreSound to recall their settings at a later stage.



If the MIDI Player's Track List is empty, it will not prevent any downstream players or sequencers from running, even if it is stopped.

whenever the loop length of the LOOP TRACK wraps. You could, for example, set up a list of LOOP TRACKS in a MIDI PLAYER, that have different lengths and by cycling through them you would get breaks in the downstream sequencers.

The RUN button is self explanatory, as it toggles the playback of the currently selected Track on or off.

The TRACK PROGRESS BAR shows the position in the currently played track. The displayed length of the track is always as defined by the respective LOOP parameter of the track (see below). Beneath the PROGRESS BAR you will find the TRACK SELECT menu.

It is automatically populated with the currently loaded tracks and displayed in the TRACK LIST. Click on the small triangle to open the menu and choose the desired track. When the MIDI PLAYER is running, it will switch to the new Track. At which point this will happen depends on the setting of the CLOCKSNC menu (see below).

Apart from choosing a Track from the menu you can also use the PREVIOUS TRACK / NEXT TRACK buttons to move through the list of tracks.

The CLOCKSNC menu has three different entries:

- ▶ *None* means that the Player will switch to the new Track immediately, without syncing the switch time to the global or host clock.
- ▶ When *Beat* is selected the Player will start on the next beat of the global or host clock.
- ▶ When *Bar* is selected, the Player will start playback on the first beat of the next bar.

Whether the MIDI PLAYER receives any MIDI data and on which MIDI channel they are received depends on the CHANNEL SELECT and INPUT SOURCE settings of the Sound it belongs to. Please read chapter 3.4 for details about how to use the EDIT AREA.

The MIDI trigger behaviour of the PLAYER is defined by the settings of the CLOCKS SYNC menu and the OFF NOTE Menu (on the far right of the Player's interface). THE OFF Note menu offers the following settings:

- ▶ *None* means that the Player, once started, will keep on looping according to the status of the Run button and any higher instances dictating start or stop.
- ▶ *Gate* invokes a different behaviour. It only has a function if the currently selected Track has a defined TRIGGER NOTE. If so, any Note off messages for that note value will stop the playback of the respective Track. In this case, the track playback acts as if it was a sample in a sampler.
- ▶ A note value between C-2 and G8 can be specified to stop playback of the MIDI PLAYER with "note on" messages.

You will find the LOAD button on the FILE AREA in the middle part of the MIDI PLAYER. It opens a standard file dialog window from your operating system and by default directs you to the MIDI file folder of the NATIVE INSTRUMENTS Shared Content. You can choose MIDI files from there or navigate to any other folder on your system. Loaded files will appear in the TRACK LIST.

The Track List has two different modes: EDIT mode and RUN mode. The List content can only be changed, with an active EDIT button..

Items can be removed from this list by selecting them with a mouse click and pressing the DELETE button.



The Player can only play one track at a time.

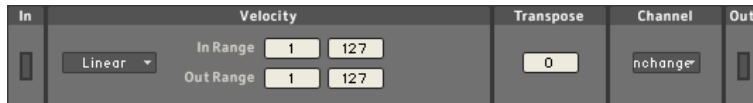


You can select and remove multiple items at once.

The four columns of TRACK LIST hold the following parameters, most of which can be changed:

- ▶ The TRACK LIST shows the MIDI file names in the leftmost column. Click with your mouse and use the keyboard to change it to your liking.
- ▶ The second column displays the LENGTH of the loaded files in the format bars:beats. This value is just for reference and cannot be changed.
- ▶ The LOOP column defines the point in the MIDI File (or Loop File, see below) where the file is played from the start again.
- ▶ The NOTE column lets you define a MIDI note for triggering the respective track. Click with your mouse and move it up or down to make a selection from the complete range of MIDI note values (C-2 to G8) or set it to NONE, which means the respective track cannot be started via MIDI notes. The trigger mode is described a few paragraphs above.

3.8.35 MIDI Transformator



The MIDI TRANSFORMATOR provides some convenient tools for changing the incoming MIDI data. Use it to shift or scale the Velocity range of notes, transpose the pitch of incoming notes or to redirect all passing MIDI data to a different MIDI Channel.

The CHANNEL SELECT and INPUT SOURCE settings define whether the MIDI TRANSFORMATOR receives any MIDI data and on which MIDI channel the data

is received. Please read chapter 3.4 for details about how to use the EDIT AREA. The MIDI INPUT and OUTPUT ACTIVITY METERS (labeled In and Out) flash when MIDI data passes the plug-in's input or output, respectively.

The VELOCITY MAPPING Section is for scaling Velocity values. Use the four parameters to the right and select a curve from the TRANSITION CURVE menu to manipulate the MIDI velocity values of incoming note messages.

The two VELOCITY parameters set the limits for variable velocity. Outside of the IN RANGE, the incoming values will be set to the lower and upper Velocity values, respectively.

You can look at this process as a transition curve in a coordinate system. The x-value of the first break point is defined by the first parameter of the IN RANGE and the y-value by the first parameter of the OUT RANGE. The other two parameters define x- and y-values for the second break point. When the right OUT value is smaller than the left Out value you get a negative slope, which can be used for velocity-crossfading applications.

Note that you can only crossfade between two velocity zones with this concept. More complicated velocity switches are not supported.

The slope of the velocity response curve between the two break points can be changed via the TRANSITION CURVE menu. You can choose between linear, four different SOFT slopes and four different HARD slopes. The SOFT curve ramps up fast with low in-velocities, and tapers off toward higher values (logarithmic response). With a HARD curve, the curve remains flat for low values and becomes steeper for higher values (exponential response).

The next parameter of the MIDI TRANSFORMER, TRANSPOSE, transposes the MIDI notes up or down in half tone steps.



Internal MIDI plug-ins are handled in the same way as any other device in KORE. This means you can save them as a KoreSound to recall their settings at a later stage.

To the right you find the CHANNEL menu. Normally every MIDI event has a MIDI channel stamped onto it. Via this menu you can redirect the MIDI data to a different channel. Choose between UNCHANGED, the 16 MIDI channels and To All. The To ALL option can be very useful for “broadcasting” a MIDI data stream to all MIDI channels.

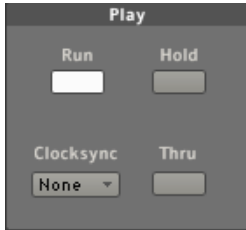
3.8.36 Arpeggiator



KORE 2’s Arpeggiator is a powerhouse of patterns. It can produce all the standard arpeggiator patterns we know and love but also goes far beyond that. Due to its very flexible note buffer concept it is able to generate a much greater variety of patterns than your standard arpeggiator. And it can do chords, too.

The CHANNEL SELECT and INPUT SOURCE settings of the Sound specify whether the the Arpeggiator receives any MIDI data and on which MIDI channel the data is received. Please read chapter 3.4 for details about how to use the EDIT AREA.

Play and Time



Internal MIDI plug-ins are handled in the same way as any other device in KORE. This means you can save them as a KoreSound to recall their settings at a later stage.

The sections `PLAY` and `TIME` provide the basic functionality of a classic Arpeggiator. If the global/host clock is running the `RUN` button toggles playback of the arpeggio on or off. Of course the Arpeggiator still needs MIDI note input to produce output. If the `HOLD` button is active, the arpeggio will keep running even if you let go of the keys. Hitting another set of keys will immediately change the arpeggio. If it's inactive, it will stop as soon as you release the keys. The setting of the `CLOCKSYNC` menu is for telling the Arpeggiator when it has to start playing. There are four entries on the menu:

- ▶ *None* means it will start playing immediately.
- ▶ *Step* leads to a start on the next step of the Arpeggiator. This interacts with the `RATE` parameter (see below). For example: If `RATE` is set to 8 and `Clocksync` is set to *Step*, the Arpeggiator will start on the next eighth.
- ▶ *Beat* and *Bar* define whether the Arpeggiator starts on the next beat or bar of the global clock / host clock, respectively.

The **THRU** button defines if the incoming note messages that feed the Arpeggiator are transmitted downstream to the next **CHANNEL INSERT** or not. If inactive, the Arpeggio start is dependent on the Clocksync setting. If active, the notes you played on the keyboard will also immediately trigger sounds in the instrument (if the Arpeggiator goes directly into an instrument).



In the **TIME** section you will find the **RATE** menu. Here you can choose the step width of the pattern. It ranges from whole notes (1) to 64th notes (64) and is relative to the global clock or host clock, respectively. The **TRIPLETS** and **DOTTED** buttons change the grid of the played notes to dotted or triplets. These two parameters can only work alternatively, not both at the same time. They lead to the following changes in grid length:

- ▶ A **DOTTED** note adds the half of the note value (as defined by Rate). If you have a rate of 2 (for half notes) the dotted option leads to a grid spacing of three beats length.
- ▶ **TRIPLETS** (also called trioles) lead to notes that are two thirds as long as the grid width defined by Rate. If Rate is set to fourth and the triplet button is active, three notes correspond to a half note.

The **GATE** parameter controls the length of the produced MIDI notes. The displayed unit is % of the note length defined by the rate parameter. It ranges from 1% to 200%. 1% is very short, 100% leads to notes exactly “filling” the grid length defined by **RATE**. A **GATE** value of 200% produces overlapping notes of double the **RATE** value.

Furthermore, you can introduce a **SWING** factor into the pattern. This factor can be positive and negative, ranging from -100% to 100%. **SWING** is sometimes also called shuffle and skews the rhythmical relationship between repeated note pairs and their length. With a positive **Swing** setting the initial note of a pair is played longer while the second gets shorter. With negative **Swing** it is the other way around.

Pitch and Velocity

The **PITCH RANGE** specifies how many octaves the arpeggio will cycle. You can set it to up to three octaves going up or down.



The **PATTERN** menu controls the order of the note sequence:

Pattern	Note order
As Played	Note order as they came in.
As Played Reverse	Note order reversed.
Up	Played from lowest to highest.
Down	Played from highest to lowest.
Up/Down	Played alternating up and down.
Down/Up	Played alternating down and up.
Converge	Plays the keys in the following order: lowest – highest – 2nd lowest – 2nd highest – ...
Diverge	Plays the keys in the following order: highest – lowest – 2nd highest – 2nd lowest – ...
Random	Played in random order.
Chord	The complete chord is played through the octaves specified by the Pitch Range parameter. This only works if the AutoChord menu is not set to off.

The `AUTOCHORD` function converts the arpeggiated single note sequence into a sequence of chords. The type of chord is chosen from the `AUTOCHORD` menu. Combined with the scale correction (see below) this can be a very powerful method to create intricate chord progressions.



Always remember that you can also control the menus of KORE with the knobs of your KORE Controller.

The scale correction of the Arpeggiator has two menus. With the SCALE menu you choose between major and minor scales and the ROOT menu defines the root note. With the Scale menu set to OFF you get no change of the notes.



You can also alter the MIDI velocity of the incoming notes. By default the Arpeggio is played with the velocity of the original notes. The incoming velocities can be modulated via the VELOCITY MOD control. When the FIX button is inactive, the MOD control sets the incoming velocity values in a relative way. If the FIX button is active, the velocity for all notes of the Arpeggio can be altered directly with the VELOCITY MOD knob.

Repeat and Force



The **STEPS** knob in the **REPEAT** section only works in combination with the **PITCH** knob. The concept is that the complete Arpeggio is repeated up to seven times (defined by the value of the **STEPS** dial) and every repetition is transposed by a number of semitones defined by the **PITCH** knob. You can transpose up to one octave up or down.

The basis of the Arpeggiator is its note buffer. You can think of it as storage with a capacity of eight notes. The notes you play on your keyboard or that are fed into the plug-in from a sequencer are stored and reproduced according to the settings you specify. A traditional Arpeggiator only repeats the sequence of notes you feed it and this is also the default behaviour of KORE 2's Arpeggiator. But with the **REPEAT** and **FORCE** parameters the repertoire of patterns is greatly expanded.

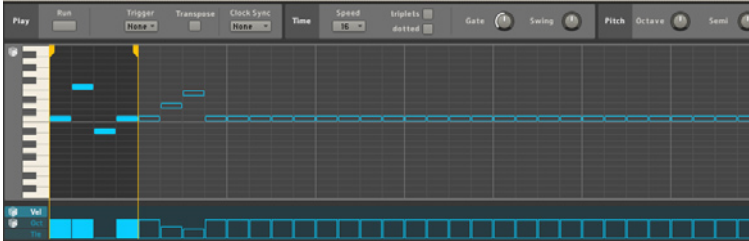


The FORCE STEPS knob sets the portion of the eight note buffer that the Arpeggiator cycles over. As you don't always play an eight note chord, the Arpeggiator has to decide what to play for the "empty" slots. This choice is controlled via the MODE menu:

- ▶ When set to *Pause* the "empty" slots are replaced by silence.
- ▶ *First* means, the first note will fill in.
- ▶ *Last* means the last note will fill in.
- ▶ *Cycle* steps through the input notes as replacements for the empty buffer slots.
- ▶ For example: Say you play a chord with the notes CEG, set the FORCE STEPS parameter to 5 and you are in CYCLE MODE. In this case the resulting Arpeggio pattern would be CEGCE.

Combined with the REPEAT parameters, the Arpeggiator can produce very intricate note patterns.

3.8.37 Step Sequencer



KORE 2's step sequencer builds on the heritage of the old analogue sequencers but as it is implemented in software it does not have their limitations. This is a very flexible and fun pattern generator that can be tweaked in realtime with your KORE 2 Controller.

The STEP SEQUENCER can also work as a “master” sequencer for downstream MIDI PLAYERS or other sequencer components, resetting them to their first beat when wrapping around its loop.

The Piano Roll Edit Area

The PIANO ROLL EDIT AREA allows you to compose your sequences. You have one octave of note pitches and a step timeline of 32 steps at your disposal. Use your mousebutton (Windows: left mousebutton) to input notes on the grid. If you want to delete a step, use the right mousebutton on windows and Ctrl-click on Mac.

The yellow, vertical lines on the grid are the LOOP MARKERS. They define the range of notes the sequencer loops over. You can click on the thickened



Internal MIDI plug-ins are handled in the same way as any other device in KORE. This means you can save them as a KoreSound to recall their settings at a later stage.

upper section of the markers to drag them into any position. Use this to set up 32 steps worth of content that can be arranged on the fly via the markers.

The small dice to the left of the keyboard is the **PIANO ROLL RANDOMIZER**. Use it to generate a random pattern of steps on the grid.

Below the **STEP GRID** you can find an area with three additional parameters per step: **VELOCITY**, **OCTAVE** and **TIE**. These are accessed via three tabs to the far left of the interface.

The values are defined by clicking on the vertical columns under the Step Grid and dragging them up or down. By clicking on the three tabs you can switch between the three parameters:



- ▶ **VELOCITY** controls the MIDI velocity of the sequencer steps. It ranges from 0 to 127. You can randomize the velocity for all steps by clicking on the Velocity Randomizer (the small dice symbol).
- ▶ **OCTAVE** transposes the octave of the sequencer up or down by one or two octaves. Again, this can be randomized. The octave value is always relative to the **PITCH OCTAVE** setting (see below).



Note that you can assign the Loop Marker position to knobs on your Kore Controller.



- ▶ An active TIE for a step leads to a prolongation of the tied note producing an overlap with the following note. In combination with a portamento sound this can be used to produce the well-known 303 acid lines. A tied note is also indicated by a small, black arrow on the step itself.

The Play section

The RUN button does exactly as the name implies: It toggles playback of the sequence on and off.

Use the TRIGGER menu to specify if the sequencer is triggered via incoming note messages. There are three different entries:

- ▶ *None* means that the sequencer will commence immediately when the Run button is activated.
- ▶ *Gate* starts the sequencer when a note-on is received and stops it when the note-off is received.

The CHANNEL SELECT and INPUT SOURCE settings of the Sound define whether the Step Sequencer receives any MIDI data and on which MIDI channel the data is received. Please read chapter 3.4 for details about how to use the EDIT AREA.

When the TRANSPOSE button is active the Step Sequencer transposes its complete sequence according to the incoming MIDI notes. Please note that

this works independently from the TRIGGER setting. With an active TRANSPOSE button you can also transpose the sequence in normal run mode.

The CLOCKSNC menu has three different entries:

- ▶ *None* causes the STEP SEQUENCER to switch to the new track immediately, without syncing the switch time to the global or host clock. This also means that it can run without KORE 2's master clock or the host clock, respectively, being active.
- ▶ With *Beat* selected the STEP SEQUENCER will switch on the next beat of the global or host clock.
- ▶ When *Bar* is selected, the STEP SEQUENCER will switch playback on the first beat of the next bar.

The Time section

On the left side of the TIME section sits the RATE menu. It offers a choice of settings ranging from 1 for whole notes to 64 for 64th notes. The values are equivalent to the grid spacing of the sequencer, so with a RATE setting of eight the sequencer will advance one step every eighth of the global/host clock.

The TRIPLETS and DOTTED buttons change the grid of the played notes to dotted or triplets. These two parameters can only work alternatively, not both at the same time. They result in the following changes in grid length:

- ▶ A DOTTED note adds the half of the note value (as defined by RATE). If you have a RATE of 2 (for half notes) the dotted option leads to a grid spacing of three beats length.

- ▶ **TRIPLETS** (also called trioles) lead to notes that are two thirds as long as the grid width defined by **RATE**. If **RATE** is set to fourth and the triplet button is active, three notes correspond to a half note.

As with any decent step sequencer you can set the length of the produced notes via the **GATE** parameter.

It ranges from 0% for very short to 100%, which results in notes as long as a complete step. The last control in the **TIME** section introduces a **SWING** factor to the pattern. This factor can be positive and negative, ranging from -100% to 100%. **SWING** is sometimes also called shuffle and skews the rhythmical relationship between repeated note pairs and their length. With a positive **Swing** setting the initial note of a pair is played longer while the second becomes shorter. With a negative **Swing** setting it is the other way around.

The Pitch section

Use the **PITCH OCTAVE** knob to set the octave for the complete pattern on a range of eight octaves. You can always transpose single steps up or down for one or two octaves by using the **OCTAVE AREA** (see above). Combined, the **PITCH OCTAVE** and the transposition via the **OCTAVE AREA** cover the complete 10 octaves of the MIDI note system.

The **SEMI** knob transposes the complete sequence up or down in semitones. The range is plus or minus one octave.

3.9 The KORE 2 Controller: Touching KORE 2

The improved KORE 2 Controller provides you with a quick and tactile interface with access to nearly all KORE 2's functions. Whether you want to set channel volume, tweak an instrument's filter cutoff frequency, load a KoreSound from the library, or morph through your SOUND VARIATIONS – all are easy tasks with the Controller.

The KORE 2 Controller's left side houses the eight buttons and knobs that are the heart of KORE 2's interface. The controls give you visual feedback on their state. The brighter the ring, the higher is the value of the assigned parameter. The Knobs are touch-sensitive; touch them and the Controller's Main Display will show the assigned parameter and its value.

The four buttons below the Display and the six buttons around the Scrollwheel are your main controls for navigating through KORE 2. You can move through the channels of a Performance or KoreSound, change the focus and set values.

The lights of these buttons always show options you have selected: if a button is lit you can use it; if not, it has no function for the currently selected mode.

With the new KORE 2 Controller you can use two pedals instead of only a single one supported with the old hardware.

The TRANSPORT AREA of your KORE 2 Controller is for starting and stopping KORE 2's CENTRAL CLOCK. It mirrors the functionality of the TRANSPORT AREA on the GLOBAL HEADER of the stand-alone application. The record button



Be aware of the fact that the internal MIDI components of KORE have to be in a Clock Sync mode that uses KORE's internal Clock for the Transport buttons to work with them.

has no functionality in KORE 2. Also, the `TRANSPORT AREA` of the hardware has no function in the KORE 2 plug-in.

Hotplugging your KORE 2 Controller

You can plug in or unplug your KORE 2 Controller at any time, KORE 2 will react transparently, automatically registering or unregistering the hardware. Regardless of whether KORE 2 is already running, if you unplug the hardware and then re-plug it; it will continue to work as expected.

Please note that you have to install the new KORE 2 driver to use the KORE 2 Controller. See the separate booklet about Installation and Setup for more on the installation procedure.

Using your KORE 1 Controller

Naturally, the KORE 1 Controller is fully compatible with KORE 2. The only difference is that the KORE 1 Controller, unlike the KORE 2 Controller, has to be connected to the computer before you start the application. The KORE 2 Controller can be connected at any time.

Please use the latest driver available for the KORE Controller. Have a look at the `UPLOAD MANAGER` of the `SERVICE CENTER`.

When comparing the two Controllers you will immediately see, that the button layout of the new one is slightly different and that there has been a name change for two buttons. To reproduce the new functionality with your legacy KORE 1 Controller you just have to memorize two facts:

- ▶ The `VIEW` button of the old hardware is now called `F1` and has been relocated to sit between the `CONTROL` and the `ENTER` buttons.
- ▶ The `MENU` button of the old hardware is now called `F2` and sits between the `SOUND` and the `ESCAPE` button.



This is not the case with the old KORE 1 controller. Please read the next section.

For the rest of this chapter we will use the new nomenclature (F1 and F2).

Please read the rest of this chapter carefully, as the new KORE Controller functionality differs profoundly from the old implementation.

The basic modes

As a quick introduction we will provide an overview for the three basic modes the KORE 2 Controller uses in KORE 2:

- ▶ **CONTROL** mode is entered via the **CONTROL** button and is used for navigating and using the **CONTROL PAGE** system.
- ▶ **SOUND** mode KORE 2 Controller: is activated by the **SOUND** button. It is used for switching through the **CHANNEL INSERTS** and provides control over the **SOUND VARIATIONS**.
- ▶ The **F2** button takes you to **BROWSER** mode allowing you to navigate your **SEARCH RESULTS LIST** and load **KoreSounds**.

Each of those modes contains two **Pages**, where you can toggle between those two sub-modes by hitting the respective button again.

The other buttons are context-sensitive and change their functions depending on the main mode your KORE 2 Controller is in.

3.9.1 Navigating with the KORE 2 Controller

As a KORE 2 Performance is a hierarchical structure, this hierarchy is also mirrored in the way you navigate through it via your KORE 2 Controller. The gist being that you first have to choose which part of the Performance you want to focus before you can access its respective USER-, PLUG-IN-, or CHANNEL PAGES.

Navigating your SOUND MATRIX takes place in SOUND NAVIGATION MODE which can be reached by hitting the SOUND button.

Let us navigate from the top (the Performance) to the bottom (a PLUG-IN PAGE of a KoreSound) on the KORE 2 Controller. We have a Performance named “My Shiny Thing” with a SingleSound and a MultiSound in two channels and hit the SOUND button:

My Shiny Thing



The DISPLAY HEADER shows the full name of the current Performance. We have an option to leave Sound mode by hitting the SOUND button again or to navigate into the Performance by hitting ENTER. We do the latter:



Now you can see the contents of the Performance. The SOUND MATRIX is depicted by rectangular slots that are show the CHANNEL INSERTS. SingleSounds have open rectangles while MultiSounds are displayed with closed rectangles. Again, the DISPLAY HEADER shows the Performance name, this time in short form. The KoreSound “Asteroid” is a MultiSound so we hit ENTER to navigate into its SOUND MATRIX:



You can see the contents of the MultiSound's SOUND MATRIX neatly laid out with the DISPLAY HEADER telling you where you are by displaying the Performance name and the name of the MultiSound.

If you want to move up a level on the SOUND MATRIX simply hit the ESCAPE button. Just watch the KORE 2 window on your computer while you do all this and you will quickly get the hang of it.

To sum up till this point:

- ▶ Enter your Performance via the Sound button.
- ▶ Choose the desired CHANNEL INSERT via the UP/DOWN/LEFT/RIGHT buttons

- ▶ The ENTER button navigates into the selected KoreSound.
- ▶ The ESCAPE buttons brings you back up one level.

Please note that the light-state of the UP/DOWN/LEFT/RIGHT depends on the situation. If you can't navigate further left, the LEFT button won't light up, if you can move down you will see the DOWN button light up. This helps to keep track of where you are on the channel roster.

Multiple KORE 2 plug-in instances

While you are in Sound mode the F1 button has a special function that only applies when you have multiple instances of the KORE 2 plug-in running in a host environment. It will take you to a screen showing all running instances:



While holding the F1 button you can use the UP/DOWN/LEFT/RIGHT buttons to switch through the respective instances currently running. Every running instance is displayed by a filled slot on the display. You also get the number of the focused KORE 2 instance displayed between the slots.

3.9.2 Controlling sounds: Pages and Sound Variations

The main purpose of your KORE 2 Controller revolves around tweaking the CONTROL PAGES and using the SOUND VARIATIONS. The direct, intuitive connection between hard- and software makes KORE 2 a real Super Instrument.

Touching Control Pages

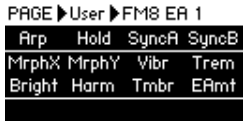
Navigation of the CONTROL PAGES in your Performance takes place in CONTROL MODE which is activated by the conveniently named CONTROL button.

Let's look at the procedure in detail:

This time we start from a state where we entered a MultiSound in SOUND MODE by selecting it and hitting ENTER:



You see that this MultiSound has two channels. The first channel holds two SingleSounds and the second holds one. We keep the focus on the first sound named “Talkbox S1” (abbreviated TlkboxS1) and hit the CONTROL button:



Now you are in the Page stack of your KoreSound. The DISPLAY HEADER always displays your location by stating that you are viewing a USER PAGE and shows the name of that Page.

This SingleSound has two pre-defined USER PAGES and we can toggle them via the UP/DOWN buttons. You can tweak their Controllers via the CONTROL KNOBS and BUTTONS of your Hardware. There is another way to navigate your USER PAGES that can be achieved by pressing and holding the F1 button:



You can see two sections on this screen; the upper part is named USER PAGES and is where navigation through the available USER PAGES takes place.

Keep holding the F1 button and use the UP/DOWN buttons to switch through the Pages.

The View menu provides you with three different views on your Pages that you can select by using the LEFT/RIGHT buttons on your hardware:



These three view modes are (shown in the picture above from left to right):

- ▶ *All* shows the **SHORT NAMES** of all assigned parameters for all **CONTROLS** **KNOBS** and **BUTTONS**. As soon as you touch a **CONTROL KNOB** on the hardware the **PAGE HEADER** on the display shows the **Long Name** and the **value**.
- ▶ *Potis* is a mode that only displays the parameters assigned to the **CONTROL KNOBS** of your hardware. Instead of the eight **BUTTONS** the values of the **KNOBS** is displayed via meters. Press a **BUTTON** on your hardware to display the **BUTTON** parameters in the **HEADER** of the display.
- ▶ *Single* always displays the last **KNOB** parameter you used with **NAME**, **METER** and **VALUE**. Please note, that pressing a **BUTTON** on your hardware displays the **BUTTON** parameters in the **HEADER** of the display.

As a **SingleSound** does not only consist of **USER PAGES** but often holds a host of **PLUG-IN PAGES**, the **CONTROL MODE** also offers the use of those. You can toggle between **USER-** and **PLUG-IN PAGES** by hitting the **CONTROL BUTTON** on your hardware. **PLUG-IN PAGES** work in exactly the same way as **USER PAGES**.

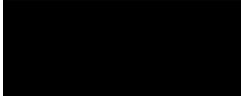
There is another **Page** type that we didn't touch on yet: the **CHANNEL PAGES**. Of course you can only access **CHANNEL PAGES** if you have focused



Plug-in Pages are not available for Integrated Engine **KoreSounds** – they only show up when the GUI of a plug-in is available, which is not the case for the **Integrated Engines**.

a MultiSound or the Performance (which is a MultiSound, too), as SingleSounds do not host a mixer structure:

My Shiny Thing



Hit ESCAPE in SOUND MODE until you reach the level of a MultiSound or the top level, which is the Performance. Then hit CONTROL on your hardware to find the CHANNEL PAGES of the respective mixer level:

PAGE ▶ Chn ▶ Input				
On	Mute	Solo		
OutLvl	Pan	InGain	Aux: 1	

From here everything is the same as already described for the USER PAGES, except that you use the LEFT/RIGHT buttons of your hardware to step through the channels. Hitting CONTROL again toggles over to the USER PAGES of the MultiSound or Performance. Again, to sum it up:

- ▶ If you have focused a SingleSound the CONTROL MODE gives access to USER PAGES and PLUG-IN PAGES.
- ▶ If a MultiSound or the Performance is in focus the Control Mode provides access to the CHANNEL PAGES of the respective mixer level and to the USER PAGES of the MultiSound or Performance.
- ▶

Touching Sound Variations

Due to their MORPHING facilities and the fact that they are abstracted from the underlying plug-ins the SOUND VARIATIONS play a major part in KORE 2 being such a powerful instrument. The KORE 2 Controller makes them even more appealing because by using the hardware you can intuitively touch and massage the SOUND VARIATIONS to produce an ever-evolving sound.

On your KORE 2 Controller the SOUND VARIATIONS are part of the SOUND MODE. To reach the SOUND VARIATIONS of a KORE 2 component you have to focus it in SOUND MODE on the hardware (or with your mouse on the screen) and hit the SOUND BUTTON. You will see something similar to the next picture:



The array of eight SOUND VARIATIONS is shown on the display with the DISPLAY HEADER telling you the name of the KoreSound or Performance you are looking at.

If a SOUND VARIATION is in use you see a letter (A to H) in its slot. In the picture above all eight SOUND VARIATIONS are occupied.

Now you can start tweaking the SOUND VARIATIONS with the CONTROL KNOBS and BUTTONS of your hardware. The KNOBS and BUTTONS each represent one SOUND VARIATION. There are two modes you can use to explore them. To switch modes hit F2 twice, which will take you to the OPTIONS of your hardware:

Options	
Contrast	60 %
Backlight	30 %
Inverse	Off
LED High	100 %

Then move down the list of OPTIONS with the DOWN button until you reach the entry *Morph Mode*:

Options	
Touch Sens	10 %
Smoothing Time	0 ms
Morph Mode	Free
Recalibrate	

You can use the LEFT/RIGHT buttons or the SCROLLWHEEL to choose between two MORPH MODES:

- ▶ *Free* (which is the default) lets you morph between the eight SOUND VARIATIONS via the Knobs with complete freedom. The eight Buttons directly jump to the respective Sound Variation.
- ▶ With *Se/ (SELECT MODE)* you must select a specific SOUND VARIATION with one of the eight CONTROL BUTTONS in order to morph to the other SOUND



You cannot set the Morph Mode on the software side. You always have to use the Options on your Kore Controller to change it.

VARIATIONS using the respective CONTROL KNOBS. In this mode the selected and the “target” SOUND VARIATIONS act as stop positions for your MORPH. This ensures that you always end up on a defined SOUND VARIATION and not somewhere in between as with the FREE MODE. For example: select SOUND VARIATION B with BUTTON 2 and turn the CONTROL KNOB for SOUND VARIATION H. You can only move between B and H. If you use CONTROL KNOB 6 (Sound Variation E) you can only MORPH between B and E. This ensures reproducible results.

SV ▶ Asteroid

A	B	C	D
E	F	G	H

Both MORPH MODES have their merits. If you just want to explore and look for a maximum of possibilities, use FREE MODE. If you need to “land” in defined and prepared parameter settings, the SELECT MODE is the way to go.

Saving Sound Variations

You can also save SOUND VARIATIONS via your KORE 2 Controller. Produce a nice sound with the CONTROL KNOBS and hit F1. The currently selected Sound Variation starts to blink on the display of your hardware and the DISPLAY HEADER displays “Store”.



Keep holding F1 and hit the CONTROL BUTTON corresponding to the SOUND VARIATION you want to save the current state to. That's it you are done.

3.9.3 Browsing the Results List

Of course you can also access your SEARCH RESULTS LIST via the KORE 2 Controller. Hit F2 on the hardware and you will be presented with something along the lines of the following picture:



The contents of the list are the same as the contents of the SEARCH RESULTS List of the KORE 2 application or the KORE 2 plug-in you have in focus. Use the UP/DOWN buttons or the Scrollwheel to navigate through the list of KoreSounds.

Hitting Enter loads the currently selected KoreSound into the CHANNEL INSERT you have focused.

You can also use the PRE-LISTEN functionality of KORE 2 by activating the PRE-LISTEN button on the Controller. With an active PRE-LISTEN button, any KoreSound you select on your Controller (or in the KORE 2 BROWSER on your computer screen) will immediately be loaded into the currently focused CHANNEL INSERT. You can step through the list one by one while playing on your MIDI keyboard to try the different hits on your SEARCH RESULTS LIST. There are two ways to leave the PRE-LISTEN mode with your KORE 2 Controller:

- ▶ Hit the ESCAPE button or the PRE-LISTEN button to cancel the PRE-LISTEN mode, returning the focused CHANNEL INSERT to the state it was in before the activation of the PRE-LISTEN mode.
- ▶ Hit ENTER on the Controller to exit the Pre-Listen mode and keep the loaded KoreSound in the CHANNEL INSERT.

The Options

Options	
Contrast	60 %
Backlight	30 %
Inverse	Off
LED High	100 %

By hitting F2 twice you can access the OPTIONS of your KORE 2 Controller.

These are mirrored in the OPTIONS of the KORE 2 application. Please read chapter 3.3.5 for a detailed description.



The Pre-Listen Mode runs a lot smoother if you sort your Search Results List by components. This is because Kore can keep the audio engine in memory when switching sounds as opposed to loading a new engine for every switched sound.

The *Morph Mode* option cannot be changed via the KORE 2 application; it is only available on the hardware. More on this in chapter 3.9.2.

Appendix A – NATIVE INSTRUMENTS plug-in considerations

The following section deals with some special considerations concerning Native Instruments plug-ins.

ABSYNTH 4, FM8 and MASSIVE

These three products natively support the KoreSound format and save all their patches as SingleSounds. Please make sure that you always use the latest updates for these products in order to be compatible with KORE 2.

REAKTOR

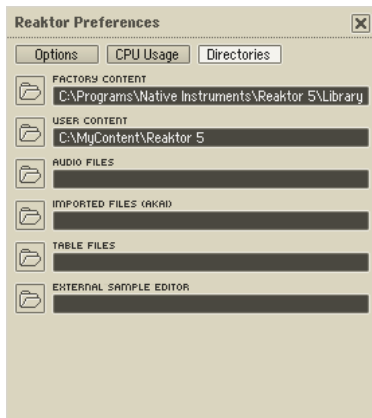
The KORE Update of the Reaktor Factory Library

The Factory Content of Reaktor 5 has been updated for compatibility with KORE. The updated Library is installed with KORE 2. It will also be part of all future updates of Reaktor 5, e.g. it is already included in the NI KOMplete 4 package.



Please check the Update Manager of the Service Center in order to download the latest updates for your products. These updates are streamlined for use with KORE 2.

The update aims to make automation possible for every parameter in all Ensembles. Technically speaking, the MAX ID value has been increased for every Ensemble to its MAX ID IN USE value. The sort and compress commands have not been used to preserve the original parameter IDs that might be used in any given automation context. If a parameter was excluded from automation by a checked Disable switch this was not changed: The option was activated in the original Ensemble for technical reasons that did not change.



The KoreSound files don't contain the complete Ensembles. They reference them relatively to the paths set within the REAKTOR preferences. If the Ensemble is moved after the KoreSound and its reference are saved,

the KoreSound will be unable to find the Ensemble. (This is similar to a sampler that needs its samples at a pre-defined place.) To keep the Factory Content working, don't move the files. This is also true for custom KoreSound and custom Ensembles.

Pre-defined Control Pages and User Pages

All **pre-defined CONTROL PAGES** of a KoreSound are based on the Factory Content Ensembles' automation lists. If these lists are changed by the user the pre-defined **CONTROL PAGES** won't work correctly. **All Ensembles** within the Factory Content folder of Reaktor must not be changed to ensure proper interaction of KORE 2 and Reaktor.

The pre-defined **CONTROL PAGES** are loaded when a plug-in is loaded into KORE. **For nearly all applications this is the perfect solution: FM8, for instance, will present the same list of parameters every time it is loaded into KORE, and thus this forms a stable fundament for the CONTROL PAGES.** Reaktor, however, presents parameter lists that can change during operation, simply by loading a different Ensemble. This complicates the usage of pre-defined **CONTROL PAGES**.

The preferred way to use Reaktor **within** KORE 2 is loading a KoreSound based on a **Reaktor Ensemble**.

Name	<input type="text" value="Ploon"/>
Rating	<input type="text" value="☆☆☆☆"/> Color <input type="text"/>
Vendor	<input type="text" value="NI"/>
Author	<input type="text" value="Stephan Schmitt"/>
Bankname	<input type="text" value="SoundSchool Analog"/>
Path	<input type="text" value="C:\...\Reaktor 5\SoundSchool Analog\"/>
Comments	<input type="text"/>

Each KoreSound contains a field called `BANKNAME` in its `META INFORMATION`. Here the name of the Ensemble file is placed that the KoreSound uses within Reaktor. This entry also determines the pre-defined Control Pages to be loaded when loading this KoreSound. If Reaktor is loaded blankly without using a KoreSound (e.g. by using the Browser's Plug-ins tab) this information is not present, and the pre-defined Pages cannot be loaded. If the Ensemble (SoundSchool Analog in the given figure) is then loaded manually within Reaktor, Reaktor cannot tell this to KORE 2 due to limitations of the VST/AU protocols.

So, if a new KoreSound, built from scratch with a Factory Content's Ensemble, is meant to use the pre-defined `CONTROL PAGES` of that Ensemble, the Ensemble file's name has to be entered manually into the `BANKNAME` field of the KoreSound.

Custom USER PAGES, however, are always part of the KoreSound, they are not saved with the Ensemble or its snapshots. They can only be re-loaded if the KoreSound is loaded – re-assembling the sound by subsequently loading Reaktor, the Ensemble and the snapshot won't recall any USER PAGE.

As mentioned above, the REAKTOR Factory Library has been prepared for use in KORE 2. This also means that all IDs are already accessible with the KORE 2 update of the factory content. If a controller cannot be automated, this is due to technical limitations, and should not be changed.

There are some REAKTOR control elements that cannot be reached via a VST host. The mouse area is an example.

Preparing an Ensemble for Use with KORE

The Ensembles that can be downloaded from the **Reaktor User Library** have not been optimized for KORE. **New Ensembles built from scratch** are also not optimized for KORE automation, of course. With the techniques described above, preparing an Ensemble for use in KORE is **straightforward**. Imagine an Ensemble that has been downloaded from the User Library. If its builder designed it for use with **Reaktor stand-alone** (where automation is of no importance) all automation parameters will be at random values. The incorporated controls like faders and buttons will fill the local parameter lists in the order of their creation, and the MAX ID value will have no relation to the number of available parameters. If there are several instruments within the Ensemble, the order of the local lists within the global list might also be not optimal. The automation has to be

adapted to the needs of the particular Ensemble. This should be done in Reaktor **stand-alone**, for convenience.

As a first step, the local list(s) of the instrument(s) have to be prepared. Execute the **Sort and Compress IDs command from the instrument's properties**. Then set the **MAX ID value to the number of MAX ID IN USE value** to make sure that no parameter is masked from the global list. After doing this for each instrument within the Ensemble use the **Instrument Up and Instrument Down commands to position the instruments within the global list**. Perhaps it might be useful to use the Ensemble's signal flow as a template for the instrument's order within the global parameter list. Finally check whether the most important parameters use **GLOBAL ID values below 1000**, as this is the maximum number of parameters supported by most plug-in protocols. Here, once more it is important to remember that changing the IDs causes incompatibility to prior automation assignments within a host. The changed Ensemble should be saved with a **new filename**.



Now close **Reaktor stand-alone** and start **KORE 2**. Create a new **REAKTOR** instance by dragging the **REAKTOR plug-in** from the **Browser** into a **SOUND MATRIX INSERT**. Open the plug-in interface and load the prepared Ensemble. With the plug-in interface open, switch to **KORE 2's GLOBAL CONTROLLER**, create a new **USER PAGE**, and press the **LEARN** BUTTON. While touching one of the hardware's **Controllers** move one of the **Ensemble's controllers** with the mouse. This connects both elements within the **USER PAGE**. Continue linking controls, or click the **LEARN** BUTTON again to leave this mode. A dialog with further options will open. Please refer to chapter 3.5.3 for details on these options. As mentioned above, **USER PAGES** are saved with the **KoreSound** – not with the **Ensemble**. Make sure you save the sound within **KORE 2** (see chapter 3.7.4). By re-opening this sound, you can always return to your custom **Reaktor automation**. Remember that the

KoreSound references the Ensemble file. If the path to the Ensemble is changed, KORE 2 won't find it.

KONTAKT

If you want to automate parameters of KONTAKT in a host environment, you have to assign them to KONTAKT's Automation Table. Refer to the KONTAKT manual for more information. You might also want to read the previous chapter: It focuses on REAKTOR, but discusses general questions.

The Presets of KONTAKT cannot be changed via the host software, i.e. KORE 2.

GUITAR RIG

If you have the same module more than once in a GUITAR RIG stack, only the one loaded first will be automatable by the VST host.

BATTERY

BATTERY does not expose any of its parameters to the host software. The Presets of BATTERY cannot be changed via the host.

ELEKTRIK PIANO

ELEKTRIK PIANO exposes none of its parameters to the host and its presets cannot be changed by the host, either.

VOKATOR

As VOKATOR is partially modular, its parameters on the pre-defined USER PAGES can only function when the respective VOKATOR part is active. Presets cannot be changed for VOKATOR.

SPEKTRAL DELAY

You cannot change Presets by the host.

Appendix B – Keyboard Shortcuts

On Mac OS X computers, use the Command key instead of the Control key. The left and right mouse buttons are abbreviated with “LMB” and “RMB”, respectively.

Global Keys

Keyboard shortcut	Function
New Performance	Ctrl + N
Open Performance	Ctrl + O
Save Performance	Ctrl + S
Save Performance as	Shift + Ctrl + S
Quit KORE 2	Cmd + Q (Mac), Alt + F4 (Win)
Global Controller	F1
Edit Area	F2
Sound Manager	F3
Browser	F4

Keyboard shortcut	Function
Info Pane	F8
Pre-Listen	Ctrl+P
Find KoreSound (opens Browser to the Quick Search field)	Ctrl+F
Start/Stop	Space
Stop and reset transport	Ctrl+Space
Undo	Ctrl+Z
Redo	Ctrl+Y
Panic button	Numeric 0
Reset parameter to default value	Double-click LMB
Adjust a parameter in fine steps	Shift+Drag LMB

Edit Area

Keyboard shortcut	Function
Move sound or channel to another location	Drag LMB
Duplicate sound in different location	Alt+Drag LMB
Open context menu	RMB

Browser

Keyboard shortcut	Function
Select sound in Results List	LMB
Open context menu for selected sound	RMB
Select previous or next sound in Results List	Cursor Up / Down
Add sound to current selection	Ctrl + LMB
Multiple selection of adjacent sounds	Shift + LMB
Load selected sounds	Double-click or Drag LMB to Global Controller
Load selected sound to specific location	Drag LMB to Edit Area
Duplicate attribute in User Set	Drag LMB to User Set

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