



### The Sound of Guitar and Bass

GUITAR RIG 2 is a professional all-in-one software and hardware set-up for guitarists and bass players. The fantastic sound quality won GUITAR RIG 16 industry awards and artists' praise the world over. A huge range of authentically emulated amps and effects are perfectly complemented by a robust foot controller boasting an integrated, studio-quality sound card.

Doubling the power of the previous version, the possibilities of this award-winning modular solution are endless. From the most dulcet tones to the hardest riffs, GUITAR RIG 2 is in a league of its own.



## Amps, Cabs, Mics and Stomp Boxes

The tones delivered by GUITAR RIG 2's Dynamic Tube Response technology are second to none. The huge selection of equipment is astounding: Choose from **8 amps**, 15 guitar and 6 bass cabinets, 4 rotary speakers, 9 microphones with adjustable positioning and **35 effects** plus modulation components. Drag and drop any number of components into the virtual rack and arrange them into the desired order. A wide range of distortion, modulation, delay, reverb, pitch and volume effects allow the sound to be tuned, twisted and tweaked until the most tantalizing tones are obtained.

## Foot Controller, Sound Card and DI Box

The **Rig Kontrol 2** foot-controller has six foot switches and a multi-functional pedal with an extra switch. Integrated into the controller is a high-quality audio interface with inputs optimized for guitar and bass pick-ups. Rig Kontrol 2's advanced design, rugged construction and tough aluminium casing ensure it holds its own on the most demanding of stages. Plug in two guitars simultaneously; use the dedicated inputs and MIDI interface to patch in additional pedals and controllers. No set-up hassles, no extra hardware needed – just plug and rock!



## Modulate and Loop

Use the **Loop Machine** to create and play back loops on the fly: Layer different leads, riffs and rhythms on top of one another and gradually build up entire guitar sections. Tools such as the Crossover and Split offer unique potential while the **Modifiers'** ability to modulate any of the parameters in real-time far exceed the realms of conventional set-ups. GUITAR RIG 2's exceptional sound quality and features make it the ideal choice – perfect for studios and stages of all sizes or just jamming at home or on the road.

## GUITAR RIG Awards:



## Top Features

- ▶ Eight renowned guitar and bass amps perfectly emulated in stunning detail
- ▶ 15 guitar and 6 bass cabinets, 4 rotary speakers and 9 microphones, all based on much celebrated hardware originals
- ▶ 35 effects: meticulously modeled stomp boxes, distortion and volume pedals and other popular units
- ▶ Loop Machine allowing recording, playback and layering of loops on-the-fly
- ▶ Modifiers such as LFOs, step sequencers, envelope followers and multi-step envelopes
- ▶ Dynamic Tube Response technology delivers powerful tube sounds
- ▶ Highly flexible, intuitive and easy-to-use 'rack' concept based on drag & drop
- ▶ Integrated metronome, tuner and multiple tape deck modules
- ▶ Huge selection of presets covering all styles
- ▶ Rig Kontrol 2 included: sturdy USB foot-controller with 7 switches and 1 pedal and an integrated high-quality audio I/O, D.I. box and headphone jack
- ▶ Real-time control of all parameters, LED displays current preset
- ▶ MIDI in / out and dedicated jacks allowing extra controllers or pedals to be connected

## Interfaces

Audio Units™, VST®, RTAS™ on ProTools 7, DXi™, ASIO®, Core Audio™, Core MIDI™, DirectSound™

## System Requirements



Mac OS X 10.3.x, G4 733 MHz, 512 MB RAM



Windows XP SP2, Pentium 700 MHz / Athlon XP 1.33 GHz, 256 MB RAM

USB 2.0 Interface Windows XP Service Pack 2

**Support for Intel-based Macs not included but coming soon. [More info...](#)**

## Recommended System



Mac OS X 10.4.x, G4 1.25 GHz, 768 MB RAM



Windows XP SP2, Pentium / Athlon XP 1.4 GHz, 512 MB RAM



# RIG KONTROL 2

## FOOT CONTROLLER WITH BUILT-IN AUDIO/MIDI INTERFACE

Rig Kontrol 2 makes life wonderfully easy. The newly designed foot controller can be used to control nearly any sound parameter. It now features a professional USB 2.0 stereo audio interface and preamplifier for the fast and convenient connection of bass, guitar or any other instrument with your computer.

Other than your computer you do no longer need any additional hardware – just install the software, plug in Rig Kontrol 2 and your instrument and start playing. It's never been easier!

Two inputs allow the use of two guitars or basses simultaneously. Monitor everything with the dedicated headphone socket without needing a P.A. Ideal for practicing and on the road!



## Immediate Sound Control

Rig Kontrol's continuous expression pedal and its seven switches are easily assignable to any parameter and afford complete real-time control of GUITAR RIG 2. Should you need real-time access to more parameters additional controllers and pedals may be connected to the dedicated inputs as well as to the MIDI interface. Switch presets, turn effects on and off, use the pedal as a wahwah or volume pedal - all while keeping your fingers on the strings.

The controller's data is transmitted via USB 2.0 - ensuring a much higher resolution and more precise control than via MIDI.

## Controller Assignment

The GUITAR RIG 2 software allows fast, easy and convenient assignment of Rig Kontrol's switches and pedal to software parameters and saves the assignments with the preset. If you like, you can define a different controller assignment for every preset.

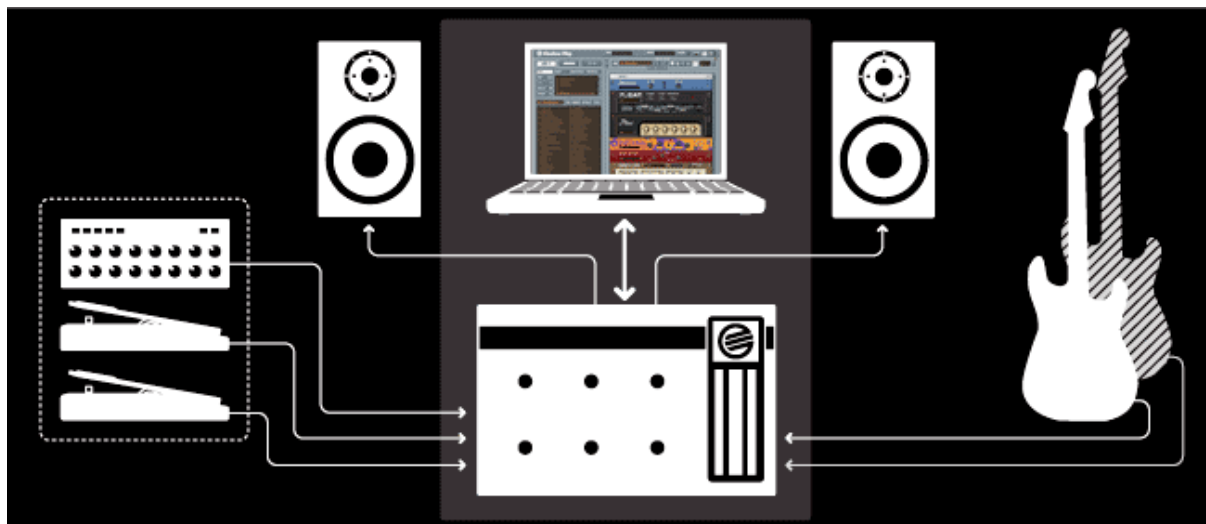
The new modulation matrix makes it possible to control multiple parameters just one controller, e.g. control the delay time, delay feedback and delay wet/dry with one pedal movement!



## Gotta Get Yourself Connected:

The following diagram illustrates the way devices are connected.

Guitar or bass are connected with standard instrument cables at one of Rig Kontrol 2's inputs. The controller is connected to the computer via USB 2.0. The stereo output of Rig Kontrol 2 is connected to the P.A., active speakers or your hifi system. Additional controllers can be connected via MIDI, two additional pedals to the dedicated input jacks.



### Rig Kontrol 2 Features:

- Sturdy foot controller with rugged, stylish brushed aluminium housing
- One metal pedal and seven ultra solid switches (one under the pedal, e.g. to bypass a WahWah effect). Each switch has a status LED indicating its status.
- Bidirectional communication with the software (Rig Kontrol 2 displays the status of the software and vice versa)
- 3 digit status LED displays current GUITAR RIG preset number
- Convenient assignment of parameters from within the software
- 24-bit/96kHz USB 2.0 audio interface (not backwards compatible with USB 1.1!)
- Two 1/4" TRS inputs with instrument preamps (regular line devices such as synthesizers can be used as well), individual gain controls per channel and signal/peak LEDs
- Two balanced 1/4" TRS outputs with high/low switch (full scale and -14dB, e.g. for guitar amps) and signal LEDs
- Headphone 1/4" TRS output with individual level control
- Two 1/4" pedal inputs for additional expression and volume pedals or switchboxes
- MIDI I/O with activity LEDs
- It is possible to use the control features (switches, pedal, and displays) of Rig Kontrol 2 independently of the audio/MIDI interface
- The control data of Rig Kontrol 2 can be recorded to a sequencer automation track
- USB 2 connection to computer
- Powered via USB 2, no AC adapter or batteries necessary
- Dimensions: 360 x 237 x 102 mm (14.1 x 9.3 x 4 inches)
- Weight: 2.6 kg (5.7 lbs)
- Not backwards compatible with USB 1.1!

### Audio Interface Specifications

#### Input:

- Sampling Rate AD: 44.1; 48; 96 KHz
- Input Impedance: 1 MOhm
- Maximum Input Level: 5Vpp, +10 dBu
- Maximum Gain: +16 dB (Input-to-Output, digital gain: 0 dB)
- THD: 0.008 % (at 1 kHz, 0 dB Gain, +2 dBu)

- SNR: -96,5 dB (A-weighted)
- Frequency Response: 20 Hz to 20 kHz  $\pm$ 0.5 dB

**Output:**

- Sampling Rate DA: 44.1; 48; 96 KHz
- Output Impedance: 200 Ohm (balanced); 100 Ohm (unbalanced)
- Maximum Output Level: 5Vpp, +10 dBu
- THD: 0.007 % (at 1 KHz, -3 dBu)
- SNR: -97 dBu (A-weighted)
- Frequency Response: 20 Hz to 20 kHz  $\pm$ 0.5 dB
- Optional Attenuation: -14 dB

**Compatibility:**

- ASIO 2.0
- Core Audio
- WDM

## CREATE YOUR DREAM SETUP

### COMBINING AMPS, CABINETS AND EFFECTS

GUITAR RIG 2 offers endless freedom in creating your own dream setups: eight outstanding tube amps, twentyfive cabinets, nine microphones, and more than 40 high-quality effects can be combined in a virtual rack in any number and order. Even the craziest setup is possible with GUITAR RIG 2!

**Selecting amps, cabinets and effects**

In the left window, all available components (amps, effects, etc.) are clearly ordered in groups. You also get valuable information on the function and sonic character of each component.





### **Drag and Drop**

Simply drag the components to the desired position in the rack and drop them in – and your setup is finished without having to patch any virtual wires! Of course you can change the order in which they appear in the rack or add and delete components.



### Component templates

Each individual component (for example a reverb) includes a selection of pre-made settings, delivering professional results immediately. Change the settings, save the changes as a component template in the effect, or keep the entire rack as a global preset. This way you can recall the entire setup again at a later date.



## AMPLIFIERS, CABINETS AND MICROPHONES

### Amps

As with the all of the GUITAR RIG components, the highest value was placed on recreating a perfect, truly authentic, sound and sonic response. The Dynamic Tube Response technology that was developed specifically for this purpose delivers great results: the eight brilliant sounding tube amps "Instant Gratifier", "Twang Reverb", "AC-Box", "Plexi", "Tweedman", "Jazz Amp", "Lead 800" and "Bass VT" all sound and respond just like the real amplifiers!

**Gratifier** emulates a smokin' solo head sound with a tube power amp. Its tonal spectrum spans the range from clean to over-the-top distortion.

**Twang Reverb** simulates the rich tube sound of the classic amps from decades ago. It's ideal for screaming blues leads and crunchy rhythm guitar sounds, as well as clean sounds laden with personality.

The classic **Plexi** sound probably needs no introduction – it's the vintage amp sound that has powered too many hit records to mention!

**AC-Box** models the famous amp sound that powered the British conquest of pop music.

The role model of the **Tweedman** was originally a bass amp but subsequently swapped sides becoming a guitar amp.

The **Jazz Amp** produces a warm, clean tone. An essential part of its sound is the Ensemble effect, which adds chorusing or vibrato. As a result, the Ensemble is built into the Jazz Amp.

**Lead 800** produces smooth, intense lead sounds that are razor sharp and offer plenty of flexibility.

**Bass VT** is a bass amp delivering a gritty, growling sound that can really make a bass stand out in a mix. In addition to the unique tonal qualities, there's a graphic equalizer to allow the sound to be tailored more precisely.

Along with the standard settings, each amplifier offers more sound-influencing "Expert Parameters", including power supply (50/60 Hz), "Variac" (reducing the supply voltage), "Response", as well as virtual "aging" of the tubes. Excellent sonic fine-tuning for real gear heads and sound fetishists!





## "Cabinets & Mics"

This component models the standard guitar amp recording chain: Cabinet, mic and mic position.



Here you've got 25 guitar and bass cabinets, nine microphones each with four to five mic positions at your disposal – all freely combinable. The variety of sonic possibility is formidable!

But that's not all: Click on the small 'Add' button, and another recording chain folds out (up to eight in total per component) with the same set of options and controls. Why settle for miking one or two cabinets when you can create a wall of sound!

## EFFECTS

GUITAR RIG 2 integrates 35 classic and modern guitar effects, which can be combined in any order or quantity you desire. Two distortion components, three delay units, four equalizers? No problem!



## New effects in GUITAR RIG 2:

- Trans Amp: versatile distortion box
- Mezone: metal distortion
- AutoFilter: perfect auto wahwah, e.g. for funk
- Stomp Compressor: new compressor with an especially tight and clean sound
- Pro Filter: NI PRO-53 synthesizer filter – analog and simply fat!
- Gain Booster: extra gain for radical boosting of gain to attain even more overdrive etc
- Noise Reduction: affects the signal similarly to a noise gate, but has a less abrupt action
- Cry Wah - new WahWah modelled after a famous hardware wah.



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### Time-based Effects

Delays and reverbs are the bread and butter of every guitarist's arsenal, which is why we took extra care to deliver the finest selection of virtual delays and reverbs available. Based on award winning NI effects algorithms, these units will go the distance on any setup.



### Modulation Effects

The modulation effects include classic tremolo, octaver, phaser, pitch pedal and much more.

These perfectly modeled effects provide a number of options for making your sound more dynamic - whether a pulsating tremolo or a swirling 70's style phaser.



## Distortion and Overdrive

GUITAR RIG 2 offers seven excellent fuzz, distortion and overdrive units. These components are accurate reproductions of classic hardware devices, and sound just like the originals.

"Screamer": This warm, smooth-sounding overdrive works great for rhythm guitar and smooth leads.

"Distortion": Classic distortion

"Fuzz Ace": fuzz pedal based on Arbiter™ Fuzz Face™

"Big Fuzz": fuzz pedal based on Electro Harmonix™ Big Muff™

"Cat": distortion pedal based on ProCo™ Rat™

"Demon Distortion": distortion pedal based on MXR™ Dime Distortion™

"Trans Amp:" versatile distortion box

"Mezone:" metal distortion



## Filter Effects

Choose from an impressive range of filter-based effects, from wahwah's to EQs. These effects serve a number of purposes, from sound and tone design to hum elimination, emphasis of certain instruments, enhancing leads and improving distortion.



## Volume Effects

From Volume Pedal to Noisegate, Limiter, and Compressor, the spectrum of these effects is more than enough.

With these units you can filter bothersome noises, limit peaks and give your sounds a more dense, compact and dynamic feel.





## Split Module

The Split Module allows you to create parallel (instead of serial) effects chains. This means you can process the split the sound and process it with different effects and then mix the results back together at the end.

Serial, parallel, and mixed serial/parallel combinations offer a practically limitless range of possibilities for combining effects, for a truly original sound.

The Split Module can be inserted anywhere in the rack. If you would like to play with two guitars or use a Chapman Stick with stereo output, you can edit both channels separately (button: "Dual Mode").



## Crossover Mix

This device is similar to the Split Module, in that it splits the signal path into two, thus allowing parallel effects. However, in this case, you can set a dividing line ("crossover point") in the frequency response, and send lower frequencies to one split and higher frequencies to the other split.





## MODIFIER

### Modulating sounds

Users of synthesizers know modifiers as "modulators". For the first time, this feature is now available for guitars: GUITAR RIG 2's modifiers can automatically animate any sound parameter thus generating especially vivid sounds with a live feel. Strum a chord and use the modifier to add rhythmic filter or distortion effect while staying perfectly in sync – the possibilities are virtually endless!

### GUITAR RIG 2 offers the following modifiers:

- LFO (low frequency oscillator) with five waveforms – for continuous or arbitrary modulation
- Analog Sequencer - 16 adjustable steps for variable triggering of sound parameters
- Input Level – an envelope follower scanning the volume of the input signal and transforming it into a control signal, e.g. the louder you play, the more distortion you get
- Step Sequencer - 16 on/off steps for "hard" triggering of sound parameters
- Multi-step envelope – for "drawing" the sound progression (as in FM7, KONTAKT 2)

All modifiers can be assigned to any parameter, they can even control several parameters at once or be used in multiple instances in the rack – a paradise for sonic experiments.



## LOOP MACHINE

The Loop Machine is another unrivalled feature of GUITAR RIG 2 that you will not find in any comparable solution.

This efficient tool allows you to record, layer, loop and playback riffs, licks, grooves and bass lines enabling the creation of dense guitar and bass patterns or

to accompany yourself on-the-fly. Loops can be synchronized to the tempo of your host application (sequencer) or to a metronome.

An example for practical use: First, you play four bars of rhythm guitar, after that you play a lead guitar, then some additional harmonies/chords and then some rhythmic slides etc..



The Loop Machine connects the best features of renowned originals with many new features. The loop duration is only limited by the size of your hard disc – theoretically you can layer loops for hours. A total of **up to 99 phrases** is possible.

### **Other powerful features**

You can export the complete recording as well as every single individual layer - for using the best licks only or for re-arrangement in a sequencer for example.

With Loop Machine's multiple undo feature poorly played licks can be erased.

Additionally, you can layer a longer loop on top of a shorter one, an 8 bar solo guitar on top of a 4 bar lick for example.

Of course, the start and overdub buttons (and other parameters) can be controlled with the foot-controller – to keep your hands free for playing.

## **TAPEDECKS**

### **RECORDING AND PLAY-ALONG**

GUITAR RIG 2 is ideal for sessions, practicing, and sketching song ideas! This is made possible through integrated, high-performance tape decks with time stretching, pitch shifting and a convenient loop function.



### Different uses for the tape decks:

- a) Sketching song ideas: Simply record your guitar playing (as wav file) to the hard drive, so no idea gets forgotten.
- b) Accompany yourself: Play a few licks and riffs, loop a passage, and then play a solo over it!
- c) Play to loops and backings: Load a drum or instrument loop (for example guitar, bass, keyboard, complete play-along tracks, etc.) and play over that. You can even change the tempo and pitch independently of one another, which works great for pitching up a guitar lick while reducing its tempo at the same time! So you can get right to it, there's a wide selection of play-along loops included (see below).
- d) Practice licks, phrases, and solos: With the integrated tape decks you can do more than accompaniments: each loop can be played back faster or slower and pitched independently of tempo: load a difficult guitar solo and simply play it back slower (at the same pitch!) or put it in another key (with the same tempo!).

TapeDeck One allows for pitch correction of +/- 12 semi tones and independent tempo correction of +/- 50%. Play along your backing tracks in any pitch and tempo you desire!

### Samples and Loops included

You can play to accompaniments and drum loops right away, since GUITAR RIG includes around 150 MB of sample loops for use in the tape decks. The loops cover the categories "Backing Tracks", "Bass Loops", "Drum Loops", "Guitar Loops", "Keyboard Loops", "Synth Loops", and "Vocal Samples".

Plus you can load and play back other loops in MP3, WAV, and AIFF format up to 16-bit resolution (for example sample CDs, etc).

<http://www.nativeinstruments.de>