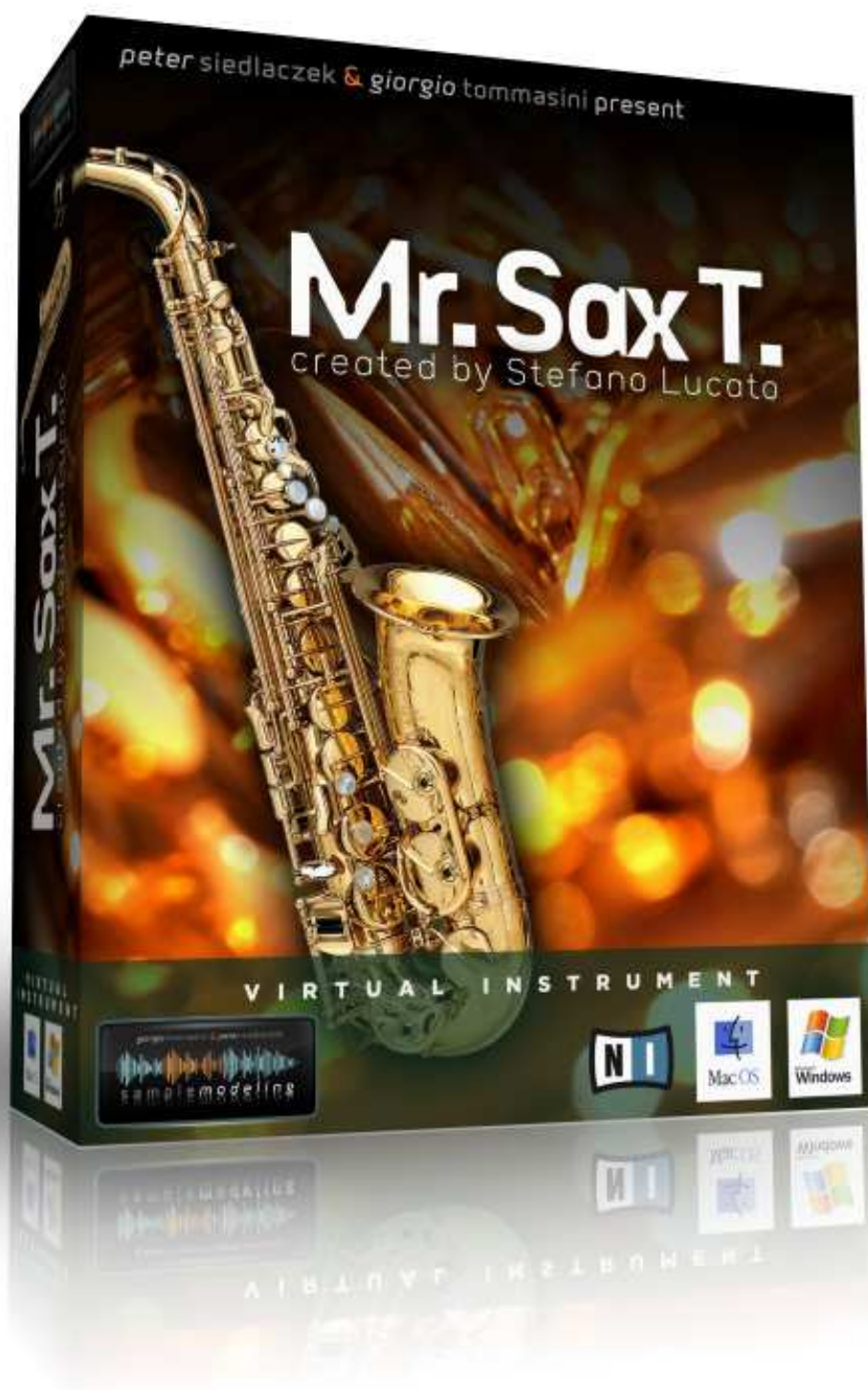


Short User's Guide to

# Mr. Sax T.

The Tenor Saxophone, version 1.01

Created by Stefano Lucato  
in collaboration with Giorgio Tommasini & Peter Siedlaczek.



# Before you start

## Please note:

to play Mr. Sax T. after proper authorisation you may:

- use the Kontakt Player 2 software provided with this product
- open the instruments in your Kontakt 2 sampler
- open the instrument in your Kontakt 3 sampler, using the files “K3 only”

Do not open Kontakt 2 version in Kontakt 3, since they will not work properly!

## System requirements

Mr. Sax T. provides unprecedented realism and expressiveness. However, it's a fairly demanding software in terms of CPU load. The instrument has been developed and thoroughly tested on a PC with IntelCore2 6600 & 2.40 GHz, 2GB RAM, Windows XP, 2 SATA drives, and a 24 bit audio card with ASIO drivers. Under these conditions, at a latency at 7 msec., the CPU load was approximately 5-7 %, at either 44.1 or 88.2 KHz. On the Mac, similar excellent results have been obtained with Mac Pro Quad Core 3 GHz, 8GB RAM, Mac OS 10.5.2, and Power Mac G5, 2 x 1 GHz, 3,5 GB RAM, OS 10.4.9.

Less powerful systems may also prove satisfactory, but may require larger buffer sizes and higher latencies, and the number of active instruments may be limited to one.

**Note: this may not represent a real problem though. Using the freeze feature or, what is more recommended, bouncing the single MIDI tracks to audio is a useful remedy. Do it before struggling against 3, 5 or 7 simultaneous sax MIDI tracks and work on the audio level instead. After all, even when working with a real musician, you need to preserve his performance on unalterable audio tracks anyway.**

More detailed information on the configurations tested so far will be available on our website, under “benchmarks”.

Conversely, the overall memory load is less of a problem, remaining below 230. Required RAM is more dependent on the concurrent applications (multiple tracks etc) ranges from one GB (for standalone use) to two GB or more (for complex multitrack arrangements using multiple plugins).

**Soundcard.** A good quality audio hardware with suitable low latency drivers (ASIO for the PC, for example) is required. At 44.1 kHz sample rate, the recommended buffer size is 256 (about 7 ms latency) or 512 samples (about 14 ms latency, less CPU load).

**Please note:** Mr. Sax T. provides optimal sonic quality at a sample rate of [88,2 kHz](#).

Recommended buffer sizes are in this case 512 (7 msec. latency) or 1024 samples (14 msec. latency). A smaller buffer size (256 samples) can also be used to further reduce the latency down to 3-4 msec., but at an expense of increased CPU load.

For further details please refer to the Short User Guide below.

**Midi interface.** A MIDI interface will be required if using a MIDI keyboard, another MIDI controller or an external sequencer, unless the connection is made via USB.

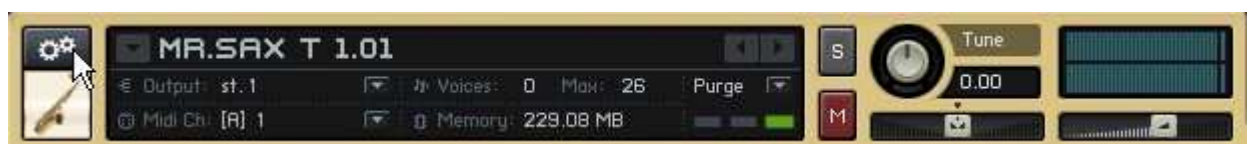
**Keyboard.** A five-octave midi keyboard, mappable from C1 to C6, with pitchwheel, modwheel, and an expression pedal (or breath controller) constitute the absolute minimum requirements for real time playing. Keyboards with several mappable physical midi controllers are recommended for full exploitation of the expressiveness of the instrument.

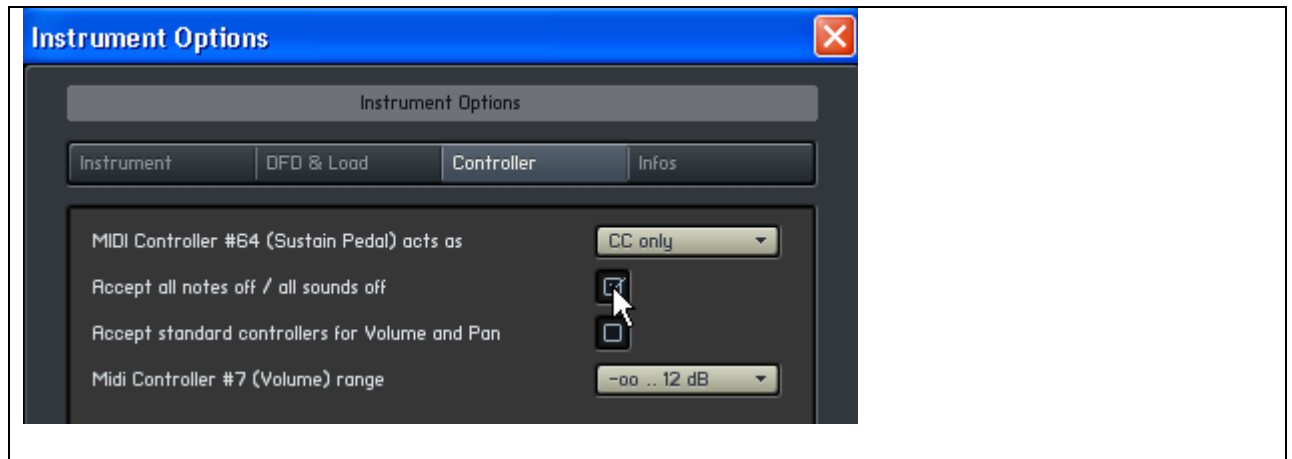
**Note:** Please note that CC11 (or CC7, or CC2) is absolutely necessary for proper functioning of the instrument. If CC11 is not connected, a warning message will be displayed. It will disappear upon receiving any CC11 data, showing that the instrument is now properly working.

**Sequencer.** If real time playing is not contemplated (you will miss a great fun though), using a sequencer may obviate the need for several physical midi controllers, while maintaining full control of the instrument's expressiveness. "Mr. Sax T." has been thoroughly tested on most common sequencers, like Cubase, Logic and Sonar.

**Tip:** Logic users, by deactivating the sax track, will dramatically reduce the CPU load, and greatly improve the overall performance. Running the Player (instead of the Sampler) is also recommended.

**Tip:** Sonar users might experience hanging notes upon stopping the playback. This is due to the fact that Sonar sends an "All-Notes-Off" command when the Stop button is pressed. The problem can be easily solved by checking the box "Accept all notes off/ all sounds off" under "Instrument Options -> Controller", as shown below.





**Kontakt 2 Player.** “Mr. Sax T.” has been developed and is distributed as a Kontakt 2 Player Virtual Instrument. The Player (vers. 2.2.4.001) is included, and no additional software is required to play the instrument. Stand-alone mode, as well as plugin formats VST, DXi, RTAS and AU are supported. For further details, please refer to the Player Manual.

**Kontakt 2 Sampler.** The instruments can be also loaded and played in Kontakt 2 (vers. 2.2.4.001 or higher), yielding virtually identical performances. Please note, however, that it cannot be opened or modified, and no access to the samples or instrument programming is provided.

**Kontakt 3 Sampler.** K3 is not fully compatible with K2 programming, and you should not therefore attempt to load the standard instruments into this platform. Accordingly, we developed a special version of the instrument, which can be found in the folder “For K3 only”. It can be safely loaded and played in K3 (vers. 3.0.2.004 or higher).

**Tip: If you have Kontakt 3 installed on your system, please do not open any nki file (instrument) double-clicking on it, if it is not “for K3 only”. If you do this, the instrument will be automatically opened in Kontakt 3, resulting in a compromised performance.**

**Installation.** Please read carefully and follow the instructions in the Readme file.

**Note: If you already have the Kontakt 2 Player on your system, you may choose not to reinstall it along with “Mr. Sax T.” library. In that case, perform a Custom Install, then follow the instructions, and uncheck the unwanted items. Make sure, however, that the installed Player is vers. 2.2.4.001 or higher.**

**Technical Support will be directly provided by Native Instruments:**  
<http://www.native-instruments.com/support.info>

# Short User's Guide

## MOST IMPORTANT:

- Recommended Buffer Size : 256 or 512 @ 44,1 kHz, 512 or 1024 @ 88,2 kHz
- Always match the SampleRate on the instrument GUI to the audio hardware settings (in Kontakt Player or sequencer)
- **Best sound quality is obtained at a SampleRate of 88,2 kHz**

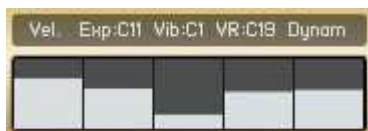
**TIP:** if running a session at 44,1 kHz, you can of course export/bounce the mix at this sampling rate (SR). However, optimal sound quality will be obtained by exporting/bouncing the Sax track at 88,2 kHz. That means: temporarily set the audio card (within the session or project), and the SR on the Sax GUI to 88,2 kHz, select the Sax track and export it, choosing 44,1 kHz (or any desired SR) as the sampling rate of the resulting audio file. Then import this audio file into your session.

**Note:** each time you change the SampleRate you need to save and reload the instrument !  
**Note:** both standard tune knobs (the Master Tune and the one above the PAN slider) MUST be set to 440 Hz and "0" respectively. Please note that the fine tuning of the Sax can only be set in the Mast.Tune window on the instrument GUI (see below).

## Instrument GUI and MidiControllers assignment & function

- **PitchBend** : realistic, asymmetrical response (not shown on the GUI)

**Column Bars** (allowing to set (with the mouse) and display the current values):



- **Vel. :** Velocity controls Attack Dynamics and Legato/Portamento Time on overlapped notes (in Velocity to P.T. mode only)
- **Exp:** Incoming Expression (automatically assigned to the first incoming CC, among CC11, CC2 & CC7)
- **Vib:C1 :** Vibrato Intensity (controlled by CC1)
- **VR:C19 :** Vibrato Rate (controlled by CC19)
- **Dynam :** Current Dynamics (from pp to ff)



- **Master Tune:** 0 = 440 Hz
- **RandExprs:** Amount of Exp Randomness (Keyboard mode only)
- **Help & Info**
- **Input Device selection:**
  - Keyboard
  - Keyboard + Breath Controller
  - Wind Controller
- **DynPitch:** Amount of Pitch Modulation on Dynam changes
- **Reset :** resets the instrument to default values
- **Attack Preferences :**
  - Enhanced Attack Hard
  - Smooth Attack Hard
  - Enhanced Attack Soft
  - Smooth Attack Soft
- **P.T.Source :** Selects Between Velocity or CC5-controlled Portamento Time
- **P.T. C5 :** Sets and displays the current CC5 value
- **K.N. C9 :** Key Noise intensity (controlled by CC9)
- **ModalRes :** Pipe Resonance intensity
- **SR :** Instrument Sample Rate
- **CC64 P. :** Sustain Pedal assignment to :
  - Soft Velocity
  - SubHarmonic
  - Growl
- **SH. C20 :** SubHarmonic intensity (controlled by CC20)
- **T.SH. :** Random SubHarmonic intensity on Transitions
- **Growl C21 :** Growl intensity (controlled by CC21)
- **Flatr C23 :** Flutter Tongue (controlled by CC23)
- **PB Sens :** Pitchbend Sensitivity



Mr. Sax T.  
 Created by Stefano Lucato  
 in collaboration with Giorgio Tommasini & Peter Siedlaczek  
 Sample Processing by G.Tommasini & S.Lucato  
 SyncroWaveTrig Technology (patent pending) & Script Programming: Stefano Lucato