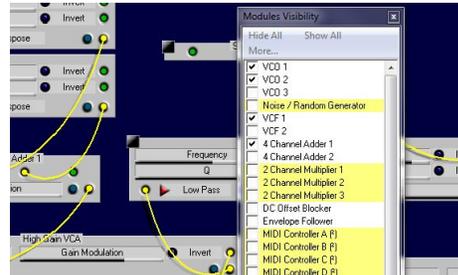


# The WaveRaker

The WaveRaker is an **open modular synthesizer**, virtual, but with high quality analog sounding modules. The WaveRaker comes with analog-modeled algorithms and tube-amp emulation on any sound-critical point. This ensures a warm and rich sound quality, especially when saturating the sound.

But besides analog modeling, we offer also all the kind of stuff that can be found only in the digital domain: Bit-Crushing, randomized sound creation, MIDI, or e.g. a freely controllable modular Reverb.

Unlike others of its kind, the WaveRaker allows for **limitless interconnection between modules** - what you can think of, you can do. It doesn't even matter if a connection makes any sense, it is always allowed.



The WaveRaker runs on **any 32-bit system with inbuilt FPU**. This includes not only Windows, OS-X or Linux, but also bare-bone and embedded systems.

To give an example, our VC1 Vocal Converter, shown to the left, is built upon a low-cost **STM32F407 ARM Cortex M4** and runs as its inbuilt monophonic sound engine the WaveRaker - on top of its own voice analysis task! (Top CPU benchmark: 86% for a single voice.)

**Polyphonic versions** will use an **entire monophonic version for every single voice!** That means that every voice has e.g. its own Reverb module. This luxuriant abundance creates incredibly smooth and dense sounds and allows to mix them in complex pattern over the stereo spectrum, or even multiple channels.

The WaveRaker, due to its MIDI event In and Outputs, can further be used as a **complex MIDI processor**.

Adding freely assignable interface controls, the WaveRaker can also be used as **back-end sound engine** for any soft- or hardware synthesizer with a customized user interface.

We are planning to bring different soft- and hardware versions of the WaveRaker to market soon. To the right you can see a preliminary picture of a monophonic version. With its Pitch Follower module it can not only be played via keyboard, but also using a guitar, a flute, or any other instrument.



For a closer look, you can download the VC1 Editor Beta for Windows [here](#). This software contains a monophonic WaveRaker.

A piece of music and a nice video, where you can hear a lot of WaveRaker sounds, can be found [here](#). It was made using the WaveRaker built into our VC1.

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