



Virus TI Catalogue 2009

Welcome

As much as a craftsman depends on the quality of his tools in order to achieve exceptional results, many musicians rely on the Virus to impress their audience. That's because for the success of artists today, a stunning sonic signature is as important as the unforgettable melody.

The Virus TI platform is the sublime fusion of an 12-year triathlon in sound-research, distillation of user input, and the simple desire to create an exceptional instrument. Conceived as a virtual analogue synthesizer it grew into a multi-synthesis workstation which seamlessly integrates into your production environment using our unique Total Integration plug-in technology.

The new edition features 25% more calculating power, new vintage effects and a completely re-designed housing.

Visit www.virus.info while reading this brochure and listen to how the Virus TI sounds.





Pocket Rocket

The Virus TI Snow fits on an issue of Time magazine and comes with a bag fashionable enough to make your friends jealous. The context-sensitive programming interface takes you straight to the right edit page with zero effort, and makes switching patches while performing a breeze. But the exciting news is that it utilises the same, non-compromise sound engine and integration like its bigger brothers, which ultimately shows that small doesn't have to mean less.







Sound Design

The Virus TI platform features a wealth of inspiring oscillator models such as virtual analogue, hypersaw, wavetable and graintable oscillators along with several filter models and the all new Character control for emulating the vibe of old analogue gear. A ring shifter, several FM types and a tape delay add the warm lo-fi sound featured so often in music today. The effects section delivers multiple, simultaneous effects including reverb and delay per part, ensuring your patches sound exactly the same in single and multi mode.

Total Integration

The concept of totally integrating a synthesizer, which essentially means streaming audio from the Virus TI into a plug-in hosted by your digital audio workstation, certainly made some waves. Features such as sample-accurate MIDI timing and the ability to process the output of your synth directly with other effect plug-ins are unique to the Virus TI. If you want to work with a hardware synthesizer and enjoy the benefits of a software plug-in at the same time, there is no better option.



INPUT R T S/PDIF D MIDI THRU MIDI OUT MIDI IN USB HOLD PEDAL CTRL

OSCILLATORS

WAVE FL 0 12 SEMITONE -48 +48 0 12
SHAPE WAVE SELECT/PW PORTAMENTO UNISON DETUNE
OSC 1 OSC 2 OSC 3
SELECT EDIT OSC3 ON BPM MONO SYNC FM AMOUNT FM MODE

MIXER

OSC BALANCE PANORAMA
SUB OSC VOLUME
OSC VOLUME SATURATION TYPE
NOISE VOLUME WAVE MODULATOR

FILTERS

CUTOFF RESONANCE ENV AMOUNT FILTER BALANCE
CUTOFF 2 EDIT FILT 1 MODE FILT 2 SELECT
AF LP HP BP BS KEYFOLLOW
FILT 1 FILT 2

FILTER ENVELOPE

ATTACK DECAY SUSTAIN RELEASE
ATTACK DECAY SUSTAIN RELEASE

AMPLIFIER ENVELOPE

ATTACK DECAY SUSTAIN RELEASE
ATTACK DECAY SUSTAIN RELEASE

VALUE 1 CATEGORY
VALUE 2 BANK
VALUE 3 PROGRAM
VALUE PROGRAM

RAM-C 69 Plasmatron
Destroy Fear F-Shift
VIRUS | TI

SINGLE CAT: Pad
PART
MULTI SINGLE
PARAMETERS BANK





Performance

Premium quality semi-weighted keys and loads of tactile control, including a tap tempo button, turn the Virus TI keyboard into a performer's command station. And with pro grade D/A converters and balanced outputs at studio level, you are guaranteed to deliver a "hot" performance.

Process other instruments by feeding them through the Virus' sound engine using the analogue inputs to open up a completely new level of interaction with your band members.

And by the way, it's built like a tank.





Signature look

Aluminium and wooden side panels, landmark designs and functionality in a sturdy metal housing – Access instruments have always been at the forefront. We take great pride in the build quality of our synthesizers which are designed, engineered and built in Germany. That's why we offer a worldwide 24 month warranty.



Oscillators

Three main oscillators and one sub oscillator per voice. A main oscillator can comprise of various oscillator types including the **classic virtual analog** oscillators (saw,variable pulse, sine, triangle, 62 spectral waves with several FM modes) and **hypersaw** (a multi saw-tooth oscillator with up to 9 stacked oscillators, 9 sub oscillators and sync oscillator at the same time). **Wavetable** oscillators with 100 multi-index wavetables, feature variable resolution and optional pulse-width modulation. **Grainable** oscillators apply granular synthesis techniques for independent control of pitch and formants to warp a waveform beyond recognition. **Formant oscillators** sound like running a signal through a massive, modulatable filterbank with hundreds of resonant bands being morphed by the wavetable index.

Filters

Two fully independent filters (lowpass, highpass, bandpass, bandstop) with an optional saturation module located in between both filter blocks. The saturation module can add one of several distortions and lo-fi effects or an additional low-/high-pass filter. Optional self-resonating Moog™ cascade filter simulation with circuit overload and 1-4 poles.

Modulation

Two-dimensional modulation matrix with six slots (1 source and 3 modulation targets each). Every feasible parameter can be modulated in realtime. Three LFOs with additional hardwired destinations along with one user-definable slot. Two lightning-fast, multi-stage envelopes (ADSTR) - LFOs can be used as ramp generators as well.

Effects

The FX section has independent delay and reverb per patch (even in multi mode), along with multiple distortion/lo-fi algorithms, phaser, chorus/flanger, character control, ring modulator/shifter, EQ plus a global vocoder. There is no difference between single and multi modes - patches sound exactly the same.

Arpeggiator

Each patch contains its own arpeggiator pattern feat. 32 programmable steps (length and velocity can be adjusted per step) along with a global control for swing/shuffle timing and one for note lengths. Pretty much every parameter including the pattern itself, the amount of octaves and many more can be controlled using the modulation matrix.

I/O

Virus TI Desktop/Keyboard/Polar: 6 balanced outputs (@ +4dB), backed by 192 Khz/24bit D/A converters, with soft-limiting. Two inputs with 24-bit A/D. Dedicated headphone out. MIDI in, out, and thru. S/PDIF digital audio (44.1/48 kHz) inputs & outputs. USB is used for MIDI and audio transmission (adding 3 additional stereo audio outputs) and works at 12Mb/s. **Virus TI Snow:** 2 outputs (@ +4dB), backed by 192 Khz/24bit D/A converters, with soft-limiting. Two inputs with 24-bit A/D. MIDI in and out. USB is used for MIDI and audio transmission (adding 3 additional stereo audio outputs) and works at 12Mb/s.

Enclosure

Virus TI Desktop: Sleek charcoal-gray finish, Red and white LEDs, white display, wood rail on front. I/O panel can be rotated for convenient rack-mounting. **Virus TI Keyboard:** Premium quality semi-weighted keyboard with 61 keys, velocity response and aftertouch. Hold and control pedal inputs. Sleek charcoal-gray finish, red and white LEDs, white display. Wood side panels. **Virus TI Polar:** Great synth-action keyboard with 37 keys, velocity response and aftertouch. Hold and Control pedal inputs. Winter-White finish, aluminium and wooden side panels, white LEDs and display, wood rail beneath the keyboard. **Virus TI Snow:** Winter-White finish, white LED and display, wood rail beneath the front panel.

Surround sound output

Every part can be panned dynamically between two stereo outputs for quadraphonic effects.



Hardware controls

Virus TI Desktop/Keyboard/Polar: 32 knobs, 43 buttons, 73 LEDs and Pitch/Modulation wheel if applicable. **Virus TI Snow:** 6 knobs, 21 buttons, 18 LEDs

Polyphony

Virus TI Desktop/Keyboard/Polar: Between 25 to 110 voices*, depending on the complexity of the patch. **Virus TI Snow:** Between 10 to 50 voices*, depending on the complexity of the patch.

*Estimates are based on single mode performance results may vary in multi mode.

Multi Mode

Multi programs can have fully-independent embedded singles, without the links to single banks required by most synths. This provides freedom from breaking other programs.

Memory

Virus TI Desktop/Keyboard/Polar: 1024 RAM and 3328 ROM sounds, 16 embedded multi patches along with 112 conventional multi slots, 16 parts in multi mode. **Virus TI Snow:** 512 RAM and 512 ROM patches, 64 embedded multi patches, 4 parts in multi mode.

Remote Templates

Turn the Virus into a MIDI remote, the sound engine will still work independently. 32 user programmable templates to reassign most panel knobs controlling control third party plug-ins and MIDI synthesizers (TI Desktop/Keyboard/Polar only).

Smooth parameter changes

Adaptive control-smoothing provides parameter changes with no zipper artifacts. With knob quantize, a clock ratio is selected and parameter changes are updated at specified intervals only. The result is sample-and-hold parameter movements, evocative of step sequencer sounds.

Atomizer

The unique DJ style audio slicer turns the Virus TI into an powerful realtime FX for DJ applications.

Total Integration

Total Integration is our proprietary technology, which seamlessly links any Virus TI model and a computer to create a unified system consisting of a powerful hardware synth and a virtual instrument plug-in, which not only controls the Virus TI but also receives audio from it, in order to allow post-processing right inside your computer. This way you get the best of both worlds: Your Virus TI will calculate all the voices and effects and therefore makes the CPU of your computer available for other tasks. Since it is driven by the Virus Control plug-in, the timing (unlike normal MIDI and USB-MIDI timing) will be sample-accurate, and all sound data will be saved within the song or project. Virus Control also offers sophisticated editing capabilities, along with an easy-to-use librarian page to keep track of all your Virus TI patches.

The Virus TI's analogue input and outputs can double as an audio interface, the MIDI sockets can double as a MIDI interface.

Virus Control is an VST/AU/RTAS compatible plug-in. Total Integration is certified for the following hosts: Apple Logic 8, Steinberg Cubase 4, Ableton Live 7, Digidesign Pro Tools 8, Cakewalk Sonar 7, ImageLine FL Studio 8.

Additional information and specifications can be found on www.virus.info



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