



Vogue MK2

software synthesizer for Mac OS X

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Standalone eight-voice polyphonic microtonal software synthesizer

Features

- eight-voice polyphonic
- hybrid synthesizer engine (virtual analog and wavetable)
- 9 VA waveforms, 78 wavetable, white noise
- three oscillators per voice, with individual square wave sub-oscillators (1 or 2 octaves lower)
- true monophonic mode (plays three voices at unison)
- single LFO with 6 waveforms
- multi-mode filter (LP4, LP2, HP, BP, BS)
- ring modulator, chorus, flanger and phaser pre-filter effects
- stereo delay with cross and reverse functions (3 seconds max delay time)
- stereo reverb with freeze mode
- easy-access modulation matrix
- scale-relative pitch-bend (self-adapting to tuning scale steps with microtonal precision)
- 120 factory preset programs
- receives MIDI tuning standard SysEx messages
- compatible with Max Magic Microtuner mtX tuning files
- library of 3,000+ tuning files included

Installation

If purchased from the Mac App Store, installation is automatically performed. Otherwise just copy the application bundle to your Applications folder.

MIDI requirements

You will need to connect a MIDI keyboard controller to your Mac in order to play the Vogue MK2 synthesizer. Set the MIDI transmit channel on your keyboard to a number that matches the selected MIDI receive channel on the Vogue MK2.

Minimum system requirements

Mac OS 10.5 or higher, 2.26 GHz Intel processor.

The Vogue MK2 FAQ – a list of selected questions

Is this software free?

The Vogue MK2 Synthesizer is not free nor public domain software: earlier versions were distributed as free-license software but Vogue MK2 is now a commercial software product distributed through the Apple Mac App Store; this policy may change with future versions. Demo versions that can be downloaded from the Internet will remain free, but they don't offer the same range of features as the actual product.

Can I sell or distribute music made with the Vogue MK2 and mention that in the liner notes?

Of course you can, making music is what this instrument is intended for.

Where is the virtual keyboard?

There's no integrated virtual keyboard, sorry. We recommend playing the Vogue MK2 through a physical professional MIDI keyboard controller, by the way if you really need a virtual keyboard you may want to consider purchasing a copy of **Midi Mock** from the Mac App Store. **Midi Mock** is a virtual keyboard/synth hybrid that allows you to play the Vogue MK2 through the computer keyboard of your Mac.

Where is the user manual?

At the moment there is no "official" manual for the Vogue MK2, apart from this document. However, most of its functionalities should be fairly intuitive to anyone familiar with hardware and software synthesizers. Most of the synthesizer controls have **help tags** that can be displayed by holding the shift key and moving the mouse on top of the control label.

The MK2 is not a plug-in, so how do I record its sound with audio sequencers like GarageBand or Logic?

This can be done by means of audio routing software like [Soundflower](#) or [Jack OS X](#). Audio routing software solutions like these are free and they will allow you to record audio generated by the Vogue MK2 through audio sequencers like GarageBand, Logic, etc. Select the audio routing software device name (e.g. "Soundflower 2ch") as audio output device using the drop-down popup menu positioned on the top left corner of the Vogue MK2 front panel, then select the same as input source of the recording track on your sequencer. Make sure you download the latest version of the audio routing software before installing it.

Can I use GarageBand as a MIDI sequencer to record and play MIDI sequences with the Vogue MK2?

As of writing, GarageBand still has no option to send MIDI data to external devices, but there is a free Audio Units [plug-in called midiO and produced by Retroware](#) that allows you to do that in a very simple way. Make sure you download the latest version (we successfully tested version 1.3 on Snow Leopard), and read the documentation file that comes with it for more details.

Can I run multiple sessions at the same time and assign different sounds to different MIDI channels?

Yes, you can copy the Vogue MK2 "application bundle" (identified by its red squared "V" icon) and rename the duplicate file by e.g. adding a number at the end. You can then run both instances at the same time: they will work as two totally independent synthesizer units (including their respective preferences files and MIDI destinations). You can run any number of instances you want, just be aware the MK2 sound generation engine requires lots of CPU power, so you'll need a fast Mac to play more than two instances at the same time.

Can I damage my hearing by using the Vogue MK2?

Yes, and this is not a joke. Don't underestimate hearing damage resulting from exposure to loud sounds for long durations, even when wearing headphones. Always keep volume levels on your mixer low enough.

How can I send MIDI Tuning Standard system exclusive messages to the Vogue MK2?

You need an application capable of generating SysEx messages in accordance with the MIDI Tuning Standard format (e.g. a microtuning editor like [Max Magic Microtuner](#) or similar software). Remember to select "Vogue MK2 IN" as MIDI destination in your application.

Why do some waveform names end with the letters "VA"?

The letters "VA" indicate they are Virtual Analog waveforms, obtained by means of dedicated algorithms to avoid aliasing; your ears should be able to notice the difference (and your CPU as well, I'm afraid...)

Is it possible to play the MK2 with a Mac Mini without having to connect any computer keyboard, mouse or display?

Indeed this is possible by adding the Vogue MK2 application to your Mac startup profile (*System Preferences* -> *Accounts* -> *Login Items*).

By doing so, once you switch-on your Mini (provided you set it up so that no password is required to log on) the MK2 will run automatically and it will respond to incoming MIDI data sent through your USB MIDI keyboard controller.

Be aware though, that switching-off the Mini by holding down its power-off button for some seconds won't save any patch changes you may have done, so this option is not suitable for editing new sound patches. During a regular shut down instead, all latest changes are saved in the MK2 "preferences" file, so the next time you run it, it will recall all settings.

What is a synthesizer?

Please check the [Synthesizer page on Wikipedia](#).

Want to know more?

Click on the Vogue MK2 front panel display to access the rear panel showing the MIDI implementation map (then click on the rear panel again to go back to the front panel).

Also consider subscribing to the official mailing list on Yahoo, where you can ask questions and share patches and banks with other users: <http://groups.yahoo.com/group/16tone>

VOGUE MK2 SYNTHESIZER - REFERENCE INFORMATION

Programs 120-127 are reserved to user: you can restore the factory presets at any time by pressing the "Reset" button located on the rear panel of the Vogue MK2, without affecting the user-reserved programs.

----- PRESET PROGRAM NAMES -----

000 - Floating stars	030 - Little Phatty	060 - Synclavier bells	090 - Antarctic frost
001 - Analog strings	031 - Theremin	061 - Full analog	091 - Rising pad
002 - Digital piano	032 - Dawn at the horizon	062 - Full analog II	092 - Synth snippet
003 - Blues on my Hammond	033 - Twin Peaks bass	063 - Quark lead	093 - Jet propulsion
004 - PPG Wave 2.3	034 - Resonant pad	064 - Mystery drone	094 - Android world
005 - Angels choir	035 - Tranceformer	065 - Deep mono bass	095 - Frogs on Jupiter
006 - Chemical sour	036 - Pulseboard	066 - TB-303 Bass Line	096 - Singing drums
007 - Sync lead	037 - 80's dream synth	067 - Rezo bass	097 - Noisy wheel trump
008 - Fretless bass	038 - Dystopia	068 - Cannabass	098 - Altair IV
009 - Digi pad	039 - FM bells	069 - Biomechanoid	099 - Cheap rotorcraft
010 - 01/W waveshape	040 - Picked synth bass	070 - Piano bells	100 - Dance kick 1 (B2)
011 - DX7 first series	041 - Electronic bells	071 - Spacey lead	101 - Dance kick 2 (B2)
012 - PPG Wave choir	042 - Stereotype	072 - Tremulation	102 - Dance kick 3 (B2)
013 - Digital gamelan	043 - 70's Mini solo	073 - Orange Bontempi	103 - Dance kick 4 (B2)
014 - Boing bass	044 - Neonlight lead	074 - Square keys	104 - Dance kick 5 (B2)
015 - Galaxy bells	045 - Bleepy square solo	075 - Atmosphere	105 - Dance kick 6 (B2)
016 - Glass drops	046 - Extreme aftertouch	076 - Chirpy birds	106 - Snare drum 1 (B2)
017 - Pipe organ I	047 - Vogue clavinet	077 - Sweepy pad	107 - Snare drum 2 (B2)
018 - Pipe organ II	048 - Dalek speak	078 - Fat pulsating pad	108 - Snare drum 3 (B2)
019 - Pipe organ III	049 - Electric organ	079 - Electric organ II	109 - Snare drum 4 (B2)
020 - Cerulean skies	050 - Soft analog bass	080 - Broken tube synth	110 - Snare drum 5 (B2)
021 - Hot square	051 - Dreamy night	081 - Extasaw	111 - Closed Hi-Hat
022 - Leslie organ	052 - Monochord	082 - Bell tower maze	112 - Open Hi-Hat
023 - Crazy filter	053 - Plucked mono solo	083 - Breathly growl	113 - Crash cymbal
024 - Reverb snippets	054 - Sea of waves	084 - Trance Seq	114 - Hand clap
025 - Shine on you	055 - Lullaby	085 - Trance Seq II	115 - Shaker
026 - Was called ARP 2600	056 - Concrete stuff	086 - Are you sequenced?	116 - Spatial cabasa
027 - Flanged clav	057 - Sawtooth keyboard	087 - Stalactites	117 - Stereo side stick
028 - Slow motion organ	058 - Distorted bass	088 - Fast sequence	118 - Glass bottle
029 - Sawtooth drops	059 - Elka Synthex lead	089 - Quite windy, innit?	119 - Bitcrushed cowbell

----- WAVEFORM NAMES -----

01 - SINE_VA	23 - OBERHEIM_BRAS	45 - DW8000_3	67 - FM_6
02 - TRIANGLE_VA	24 - ARP2600_STR	46 - DW8000_4	68 - FM_7
03 - SQUARE_VA	25 - ARP2600_BS	47 - DW8000_5	69 - FM_8
04 - SQUARE_2	26 - ODYSSEY_BS	48 - DW8000_6	70 - FM_9
05 - ANAPULSE_1/4	27 - ARP_OBOE	49 - DW8000_7	71 - FM_10
06 - ANAPULSE_1/8	28 - PROPHECT_SAW	50 - M1_BOTTLE	72 - FM_11
07 - ANAPULSE_1/16	29 - SH101_SQR	51 - M1_ORGAN	73 - FM_12
08 - ANAPULSE_1/32	30 - JUNO60_STR	52 - MS20_1	74 - FM_13
09 - PULSE_1/4_VA	31 - SYS100_SQR	53 - MS20_2	75 - FM_14
10 - PULSE_1/8_VA	32 - JUP8_STR	54 - MS20_3	76 - FM_15
11 - PULSE_1/16_VA	33 - HOHNER_MUSET	55 - MS20_4	77 - FM_16
12 - PULSE_1/32_VA	34 - FARFISA	56 - MS20_5	78 - FM_17
13 - PULSE_1/64_VA	35 - HAMMOND_B3	57 - MS20_6	79 - FM_18
14 - SAWTOOTH_VA	36 - SYNCLA_BELL	58 - PROPHECY_BS1	80 - FM_19
15 - SAWTOOTH_2	37 - FAIRLIGHT_FLT	59 - PROPHECY_BS2	81 - FM_20
16 - SAWTOOTH_3	38 - DS-8_1	60 - PROPHECY_LD	82 - FM_21
17 - SAWTOOTH_4	39 - DS-8_2	61 - WSTATION_ORG	83 - FM_22
18 - SAWTOOTH_5	40 - DS-8_3	62 - FM_1	84 - FM_23
19 - SAWTOOTH_6	41 - DS-8_4	63 - FM_2	85 - SPECTRAL_1
20 - MINIMOOG_BS_1	42 - DS-8_5	64 - FM_3	86 - SPECTRAL_2
21 - MINIMOOG_BS_2	43 - DW8000_1	65 - FM_4	87 - SPECTRAL_3
22 - OBERHEIM_SAW	44 - DW8000_2	66 - FM_5	88 - WHITE NOISE

MIDI IMPLEMENTATION

----- CHANNEL MESSAGES AND LIST OF MIDI CONTROLLERS -----

Note ON (velocity sensitive)

Note OFF

Pitch Bend

Program Change

Channel Aftertouch

Control 001 = Mod. Wheel
Control 005 = Portamento Time
Control 007 = Master Volume
Control 010 = Pan
Control 012 = LFO Vibrato Switch
Control 013 = LFO Wah Switch
Control 014 = LFO Tremolo Switch
Control 015 = LFO AutoPan Switch
Control 018 = LFO Waveform
Control 019 = LFO Voice Sync Switch
Control 020 = LFO Delay Time
Control 021 = LFO Depth
Control 022 = LFO Frequency
Control 023 = Pitch Bend Range (in tuning scale steps)
Control 027 = Amp. Env. Attack Time
Control 028 = Amp. Env. Decay Time
Control 029 = Amp. Env. Sustain Level
Control 030 = Amp. Env. Release Time
Control 031 = Release Pitch Bend Sw.
Control 032 = Global Transpose
Control 033 = Matrix Mod. Amount 1
Control 034 = Matrix Mod. Amount 2
Control 035 = Matrix Mod. Amount 3
Control 036 = Matrix Mod. Amount 4
Control 037 = Matrix Mod. Amount 5
Control 039 = Matrix Mod. Amount 6
Control 040 = Matrix Mod. Amount 7
Control 041 = Matrix Mod. Amount 8
Control 042 = Matrix Mod. Amount 9
Control 043 = Matrix Mod. Amount 10
Control 044 = Matrix Mod. Amount 11
Control 045 = Matrix Mod. Amount 12
Control 046 = Matrix Mod. Amount 13
Control 047 = Matrix Mod. Amount 14
Control 048 = Matrix Mod. Amount 15
Control 049 = Matrix Mod. Amount 16
Control 050 = Matrix Mod. Amount 17
Control 051 = Matrix Mod. Amount 18
Control 053 = Mod. FX Type
Control 054 = Mod. FX Speed Switch
Control 055 = Mod. FX Depth
Control 056 = Mod. FX Frequency
Control 057 = Mod. FX Feedback
Control 058 = OSC1 Sub Osc. Level
Control 059 = OSC2 Sub Osc. Level
Control 060 = OSC3 Sub Osc. Level
Control 061 = OSC1 Sub Osc. Octave
Control 062 = OSC2 Sub Osc. Octave
Control 063 = OSC3 Sub Osc. Octave
Control 068 = Legato Switch
Control 076 = Mono Key Priority
Control 077 = Filter Cutoff
Control 078 = Filter Resonance
Control 079 = Filter Saturation
Control 080 = Filter Keyb. Tracking
Control 081 = Filter Type
Control 085 = Filter Env. Attack Time
Control 086 = Filter Env. Decay Time
Control 087 = Filter Env. Sustain Level
Control 088 = Filter Env. Release Time

Control 089 = Filter Env. Amount
Control 090 = Filter Inverse Envelope
Control 102 = OSC1 Waveform
Control 103 = OSC2 Waveform
Control 104 = OSC3 Waveform
Control 105 = OSC1 Octave
Control 106 = OSC2 Octave
Control 107 = OSC3 Octave
Control 108 = OSC1 Transpose
Control 109 = OSC2 Transpose
Control 110 = OSC3 Transpose
Control 111 = OSC1 Fine Tune
Control 112 = OSC2 Fine Tune
Control 113 = OSC3 Fine Tune
Control 114 = OSC1 Level
Control 115 = OSC2 Level
Control 116 = OSC3 Level
Control 117 = Master Tune
Control 118 = Analog Warmth
Control 119 = Tuning Swap Switch
Control 123 = All Notes Off (Panic)
Control 126 = Monophonic Mode
Control 127 = Polyphonic Mode

----- **SYSTEM EXCLUSIVE MESSAGES** -----

Receives MIDI Tuning Standard messages (Bulk and Octave only)

----- **NRPN CONTROLLERS** -----

Stereo Delay NRPN controllers

NRPN 0200hex = Stereo Delay Time Left (coarse, 25ms steps)
NRPN 0201hex = Stereo Delay Time Right (coarse, 25ms steps)
NRPN 0202hex = Stereo Delay Feedback
NRPN 0203hex = Stereo Delay Mix (0=Dry/127=Wet)
NRPN 0204hex = Stereo Delay Level
NRPN 0205hex = Cross Delay mode OFF/ON
NRPN 0206hex = Reverse Delay mode OFF/ON
NRPN 0207hex = Stereo Delay Bypass OFF/ON

Stereo Reverb NRPN controllers

NRPN 020Ahex = Stereo Reverb Room Size
NRPN 020Bhex = Stereo Reverb Stereo Width
NRPN 020Chex = Stereo Reverb Hi Freq Damping
NRPN 020Dhex = Stereo Reverb Wet Level
NRPN 020Ehex = Stereo Reverb Dry Level
NRPN 020Fhex = Stereo Reverb main switch OFF/ON
NRPN 0210hex = Stereo Reverb Freeze switch OFF/ON

Miscellaneous NRPN controllers

NRPN 0300hex = Vogue GUI page selection (value 0 = Page 1, value 1 = Page 2)

Version History

June 2010:

- version 1.0 (first public release)

July 2010:

- version 1.1 (improved anti-clipping and other minor bug fixes)

August 2010:

- version 1.2 (added Stereo Delay effect)

October 2010:

- version 1.3 (added Stereo Reverb effect)
- version 1.4 (changed internal MIDI routing and added MIDI THRU button on rear panel)

December 2010:

- version 1.5 (added Filter Keyboard Tracking slider control)
- version 1.6 (enhanced wavetable synthesis engine with anti-aliasing spectral filter to improve sound quality on higher octaves)

January 2011:

- version 1.7 (added multi-mode filter and increased number of presets)

April 2011:

- version 1.8 (fixed issue that would cause crashes on OS X 10.7 Lion; changed appearance of sliders)

May 2011:

- version 1.8.1 (fixed an issue with multi-channel audio interfaces; fixed issue with mouse wheel no longer allowing slider control, broken in version 1.8)

June 2011:

- version 1.8.2 (added audio output device selector; added MIDI channel option "Any" to let the instrument receive channel messages in omni mode)
- version 1.8.3 (fixed audio click problem affecting Chorus and Flanger effects)

December 2011:

- version 1.8.4 (fixed tuning file loading bug, fixed bug affecting receipt of SysEx messages)
- version 1.8.5 (fixed bug freezing the app on Macs with a 64bit kernel)

January 2012:

- version 1.8.6 (fixed bug causing the app to freeze on some Macs)

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