



# B00GA

## User Guide

v1.0

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# B00GA

## Micro-Sound Rhythm and Tone Generator

[B00GA](#) is a studio and live instrument designed to create experimental rhythms and tonal textures.

Inspired by a rare piece of lab equipment, the **Hewlett-Packard Word Generator 8006A**, it offers an excitingly different way to sequence clicks, pulses, and noise. Use it to create tight grooves, off-kilter beats, and forever shifting micro-sound patterns. Speed them up into rich drones and tonal structures. It comes with a suite of five vintage-flavored effects that allow for unique radiophonic effects.

From brain-dance to the dance floor to advanced sound design, let's B00GA!

**B00GA** is available for macOS, Windows, and Linux (VST, VST3, AU, AAX, CLAP). It's also available on the App Store for iOS and iPadOS (AUv3 and Standalone).

# Installation

## macOS

- Double click on the DMG archive to extract it
- Right click on the PKG installer and click open
- Follow the instructions to install the plug-in(s)

## Windows

- Extract the ZIP archive
- Double click on the setup file (.exe)
- Follow the instructions to install the plug-in(s)

## Linux

- Extract the tarball archive
- Run `./install.sh`
- Follow the instructions to install the plug-in(s)

# Registration

You can open the registration window by clicking on the icon ☰ next to the bypass button, in the top-right corner.

## Online

- If you haven't created an account yet, you can [sign up here](#)
- Just input your credentials into the text fields and click on Log In.



A screenshot of a login dialog box. At the top is a back arrow on the left and a close 'X' on the right. Below them is an icon of a flask with a flame. The title 'Log in to authorize' is centered. There are two input fields: 'Email' with an envelope icon and 'Password' with a key icon. Below these is a radio button labeled 'Remember me'. At the bottom is a 'Log In' button. Below the button are two links: 'Forgot Your Pass?' and 'Sign Up'.

## Offline

- Download the license file from your [account](#).
- Just drag and drop the license into the registration window or click on the *Load License File* button and browse to the downloaded license.



A screenshot of an offline activation dialog box. It has a back arrow on the left and a close 'X' on the right. Below them is the same flask icon. The title 'Offline activation' is centered. Below the title is the text 'Drop the license file here or'. At the bottom is a 'Load License File' button.

# Parameters

## Sequencer

<i>Word Length</i>	Sets the total number of steps in the sequence
<i>Pattern</i>	Loads one of the available patterns
↳ <i>Copy/Paste</i>	Copy/Paste from/to the current selected pattern

<i>Rnd Cycle</i>	Randomizes the pattern at every cycle
<i>Rnd</i>	Generates a new random pattern
<i>Invert</i>	Flips all the steps
<i>Clear</i>	Sets all the steps to <i>off</i>

## Main

<i>Play</i>	Starts or stops the sequencer
<i>Trigger</i>	Defines how the sequencer is started: <ul style="list-style-type: none"><li>• <i>Free</i>, starts when you press the Play button</li><li>• <i>Host</i>, follows the DAW transport, starting/stopping with playback</li></ul>
<i>Pendulum</i>	When enabled, the sequence plays forward, then reverses back in a looping pendulum motion
<i>Rate</i>	Sets the playback speed of the sequence relative
↳ <i>Sync</i>	Syncs the speed to the host tempo
<i>Volume</i>	Controls the overall output level

## Pulse

<i>Bank</i>	Selects the pulse bank
↳ <i>Reload</i>	Reload the banks from disk if they have changed
<i>Volume</i>	Controls the level of the pulse voice
<i>Pitch</i>	Adjust the pitch (read speed) of the pulse voice
<i>XFade</i>	Crossfades between the 8 available pulses
↳ <i>RND</i>	Randomize the XFade position at every active step

## Noise

<i>Volume</i>	Controls the level of the noise voice
<i>Clock</i>	Sets the internal rate of the noise generator
↳ <i>RND</i>	Randomize the Clock position at every active step
<i>Legato</i>	Holds the envelope across adjacent active steps, triggering decay only after the last step
<i>Tone</i>	Adjust the internal Tilt filter for dark or bright noise
<i>Attack</i>	Sets how fast the noise fades in
<i>Decay</i>	Sets how fast the noise fades out
<i>Env Shape</i>	Shapes the envelope curve

## Effects

**B00GA** includes a set of four high-quality effects, inspired by classic gear and designed to complement the sequencer character. The effects section features:

**Passive Bandpass Filter**, 10 bands of octave filtering. Modeled to sound like the original duck-green passive filter, not be scientifically exact. The mix knob allows mixing of the dry and filtered signal.

**Spring Reverb**, classic spring reverb with a warm, vintage character. Perfect for adding depth, space, and retro charm to any sound.

**Phaser**, a rich, swirling phaser effect inspired by vintage analog units.

**Tape Echo**, an authentic tape delay based on our Space Echo emulation Outer Space.

# Using B00GA

## Trigger

B00GA can run either freely or in sync with your host/DAW.


The Trigger mode determines how playback begins.

When set to *Free*, the sequencer starts straight away. When set to *Host*, it follows the host or DAW transport, starting and stopping with your session.

In both cases, the sequencer plays only when the *Play* button is engaged.

## Creating your own Banks

You can easily create your own banks to use in B00GA.

Simply open the Banks Folder by clicking on the  icon (top-right corner of the UI), then choose Global Settings, Banks Path, Open Banks Folder.

The file structure is simple, just put your samples in the folder. The plugin will only scan the first 8 samples in each folder and place them alphabetically. Only a fraction of the beginning of the sample will be used as a Pulse source.

B00GA can load several audio format types: WAV, AIFF, FLAC, OGG.

After you have added your own banks, just click on the reload button next to the bank list.

## Origin

The starting point for B00GA was a rare piece of US-American test equipment, the binary word generator. *“Word generators are used to produce the complex waveforms necessary for logic circuit testing, telecommunications system development, and for interface simulation”*. When Hainbach found one for a few bucks on eBay, he quickly realized the musical potential: without any modification, it became the rhythmic core of his test equipment music. Word generators are also in use at the famed Willem Twee studio and are generally much appreciated for their precise timing and their ability to morph from



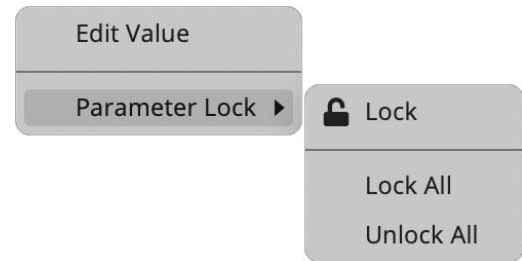
rhythm to continuous tone to even the radio frequency spectrum. They are also notorious for overheating, which means few of the most musically useful units survive. Their main use in test equipment music is in “pinging”, causing other devices, like filters or lock-in amplifiers, to resonate and play rhythmic patterns.

# Features

## Parameter Lock

If you want to keep the value of one or more parameters while changing presets, or when using the randomizer button, you can use the *Parameter Lock* feature.

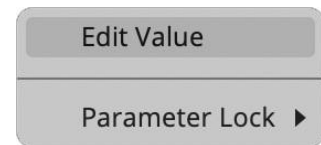
Right click on a parameter and choose *Parameter Lock*.



<i>Lock / Unlock</i>	If locked, the parameter won't be updated when changing presets
<i>Lock All</i>	Locks all parameters
<i>Unlock All</i>	Unlocks all parameters

## Edit Value

You can also manually change the value for knobs and sliders. Right click on a parameter and choose *Edit Value*. You can also access this feature with SHIFT + Click.



By clicking on the icon ≡ you can access additional features.

## MIDI

You can allow incoming MIDI notes to control rate or start the sequencer:

<i>MIDI to Rate</i>	The sequencer rate follows the MIDI note you play
<i>MIDI to Pulse Pitch</i>	The MIDI note played controls the Pulse Pitch parameter
<i>MIDI to Noise Clock</i>	The MIDI note played controls the Noise Clock parameter
<i>MIDI to Start</i>	Playing a note will start or stop the sequencer

## Banks Path

You can change the path to the banks/samples if you want.

*Set Custom Folder* Will let you browse to the path where you want the banks

*Reset to Default* Resets the path to its default value (see Data below)

*Open Banks Folder* Will open the bank folder

## Pulse Fadeout

When enabled, if the pulse sample is longer than the sequencer step, it will be faded out instead of being cut off suddenly.

## Window Size

You can resize the plugin window using three predefined sizes (*small, standard, big*).

You can also resize the plugin window by clicking and dragging the bottom-right corner of the interface. Double clicking will reset to the standard size.

## Preset Copy / Paste

You can easily share presets by using this Copy/Paste feature.

*Copy to Clipboard* The status of all parameters will be saved to the Clipboard

*Paste from Clipboard* Load a preset from the Clipboard

## Enable / Disable Notifications

You can enable or disable the notifications for updates and news (shown by the bell icon). This option is global and it will affect all AudioThing plugins.

## Swap Mouse Buttons

If you use the right button as your primary mouse button, the plugin might not recognize it. Use this option to enable it internally in the plugin.

This option is global and it will affect all AudioThing plugins.

## **GUI Acceleration**

You can enable or disable the GUI acceleration supported by your system.  
The current and default library is OpenGL.

## **Graphics Controls**

This feature allows you to modify the User Interface's Brightness and Contrast.

# End

## Where is everything?

The installer will place the plugins, presets, and other data in these folders.

### macOS

AU     /Library/Audio/Plug-ins/Components/  
VST     /Library/Audio/Plug-ins/VST/  
VST3    /Library/Audio/Plug-ins/VST3/  
CLAP    /Library/Audio/Plug-ins/CLAP/  
AAX     /Library/Application Support/Avid/Audio/Plug-Ins/  
Data     /Users/Shared/AudioThing/

### Windows

VST     *custom path from the installer*  
VST3    \Program Files\Common Files\VST3\  
CLAP    \Program Files\Common Files\CLAP\  
AAX     \Program Files\Common Files\Avid\Audio\Plug-Ins\  
Data     \Users\Public\Public Documents\AudioThing\

### Linux

VST     ~/.vst/  
VST3    ~/.vst3/  
CLAP    ~/.clap/  
Data     ~/.local/share/AudioThing/

## Credits

DSP & Code	<i>Carlo Castellano</i>
Idea	<i>Hainbach</i>
Design	<i>John Gordon</i>
QA	<i>David</i>

## EULA

Please visit [www.audiothing.net/eula/](http://www.audiothing.net/eula/) to review this product's EULA.

## Thank You

Thank you for your purchase! We hope you will have as much fun using it as we had making this product.

For support, please visit [www.audiothing.net/support/](http://www.audiothing.net/support/)

For further help or any questions, please contact us here: [www.audiothing.net/contact/](http://www.audiothing.net/contact/)

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