# G-Stomper Studio
# G-Stomper Rhythm
# G-Stomper VA-Beast
# G-Stomper Producer

# User Manual

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Official Website:   https://www.planet-h.com/

## Contents

# 26    Technical Specifications

## 26.1    Drum Sampler

| | |
|---|---|
| **Max nr of Sampler Tracks** | 24 |
| **Real-time Sample Manipulation** | Yes |
| **Sample / Track Settings** | Panorama<br>Volume<br>Accent Amount<br>Sample Start Point<br>Sample Length<br>Sample Pitch (optionally independent from Sample Speed)<br>Sample Speed (independent from Pitch)<br>Shuffle (on/off per Track)<br>Roll (off, 2x, 3x, 4x, 5x, 6x, 7x, 8x)<br>Normalize Sample<br>Sample Reverse<br>Randomized Fill-In |
| **Modulation LFO** | 1 |
| **Modulation LFO Waveforms** | Triangle<br>Saw<br>Pulse<br>Random<br>Smooth Random<br>Triple Peak<br>Sine |
| **Modulation LFO Invert** | Yes |
| **Modulation Envelope** | 1 |
| **Modulation Envelope Modes** | AD (Linear + Logarithmic) |
| **Modulation Envelope Reverse** | Yes |
| **Filter Section (per Sampler Track)** | Resonant Filter with 8 different Filter types<br>12dB Low Pass<br>12dB High Pass<br>24dB Low Pass<br>24dB High Pass<br>12dB Band Pass<br>12dB Notch<br>24dB Moog Low Pass<br>24dB Moog High Pass |

| | |
|---|---|
| **Mute Groups** | 4 free assignable Mute Groups |
| **Factory Drum Kits** | 909<br>S09<br>808<br>707<br>606/CR8000<br>505<br>RZ-1<br>Electro<br>Linn<br>Rock,<br>FLPH Promo Kit1<br>FLPH Promo Kit2<br>FLPH Promo Kit3<br><br>+ a small collection of vocals, synth, fx, and bass samples |
| **Add-On Pack Support** | Yes (huge amount of Sample Packs available) |
| **User-Samples Support** | Yes |
| **Supported User-Sample Formats** | Uncompressed wav, aif, aiff<br>Bitrates: 8, 12, 16, 20, 24, 32, 32 float, 64 float<br>Sample Rates: All (tested from 6kHz to 192kHz)<br>Channels: Mono, Stereo |
| **Maximum concurrent number of Samples** | 1536 (24 Drum Sampler Tracks * 64 Patterns) |
| **Sample Memory** | Depends on the limit of the Device,<br>goes from 48mb up to 512mb or more |

## 26.2   VA-Beast Synthesizer

| | |
|---|---|
| **Max nr of Synthesizer Tracks** | 12 |
| **Max nr of Synthesizer Voices per Track** | 12 |
| **Oscillators** | 2<br>(+ 1 hidden Oscillator in the Osc Modulator) |
| **Oscillator Waveforms** | Saw<br>Pulse<br>Triangle<br>Sine<br>Noise<br>Dual Sine (2 independent Sine Waves as one Waveform) |
| **Multi-Sample based Synthesis** | Additional Waveform PCM per Oscillator capable to load Multi-Sampled Instruments, unlimited Velocity Layers |
| **Oscillator Waveform Shape** | Yes (specially designed for each particular Waveform) |
| **Oscillator Sync** | Yes (All Waveforms except Dual Sine and PCM) |
| **Oscillator internal FM** | Yes (Dual Sine, Sine1 > Sine2) |
| **Oscillator Modulation** | FM (Osc2 > Osc1)<br>Differential FM (Osc2 > Osc1)<br>Ring Modulation (Osc2 > Osc1)<br>Distortion/Ring Modulation (Mod Osc > Osc1/Osc2)<br>Distortion (Distortion > Osc1/Osc2)<br>Filter FM (Osc2 > Filter Cutoff)<br>Filter Resonance Modulation (Osc2 > Filter Resonance) |
| **FM Algorithms** | Phase Modulation (like in DX7)<br>Log+<br>Log+/-<br>Lin+<br>Lin+/- |
| **Modulation LFOs** | 3 |
| **Modulation LFO Waveforms** | Triangle<br>Saw<br>Pulse<br>Random<br>Smooth Random<br>Triple Peak<br>Sine |

| | |
|---|---|
| **Modulation LFO Invert** | Yes |
| **Modulation LFO Single Cycle Mode** | Yes |
| **Modulation Envelopes** | 3 |
| **Modulation Envelope Modes** | AD<br>AHR<br>AD Repeat |
| **Modulation Envelope Invert** | Yes |
| **Modulation Envelope Attack Types** | Linear<br>Exponential<br>Offset |
| **Pitch Wheel** | Yes (free assignable Up/Down range) |
| **Modulation Wheel** | Yes (free assignable Morph Group) |
| **Sustain Pedal** | Yes (momentary, toggle, or wheel) |
| **Filter 1+2 (per Voice)** | 2 Resonant Filters with 8 different Filter types<br>12dB Low Pass<br>12dB High Pass<br>24dB Low Pass<br>24dB High Pass<br>12dB Band Pass<br>12dB Notch<br>24dB Moog Low Pass<br>24dB Moog High Pass |
| **Filter 1+2 Keyboard Tracking** | Yes |
| **Filter 1+2 Envelope** | ADSR |
| **Filter 1+2 Envelope Invert** | Yes |
| **Filter 1+2 Envelope Attack Types** | Linear<br>Exponential<br>Offset |
| **Filter 2 Routing** | Serial and Parallel |
| **Amp Envelope** | ADSR |
| **Amp Envelope Attack Types** | Linear<br>Exponential |
| **Vibrato (per voice)** | Global Vibrato to give your sounds the final touch |

| | |
|---|---|
| **Arpeggio** | Arpeggiator with 4 different operation modes<br>Up to 4 Octaves |
| **Stereo Unison (per voice)** | 2, 3 and 5 Layers |
| **Polyphonic Glide** | Morph between complete chords |
| **Polyphonic Legato** | Morph between complete chords without re-triggering the envelopes |
| **Chord Memory** | Map complete chords to a single Key |
| **Sound Library** | Factory Sound Library with over 100 Presets<br>Unlimited User Presets |
| **Add-On Pack Support** | Yes (various Add-On Packs available) |
| **Preset Import Format** | SFZ (.wav and .aif/.aiff based) |
| **User-Samples Support** | Yes (in the Multi-Sample based PCM Module) |
| **Supported User-Sample Formats** | Uncompressed wav, aif, aiff<br>Bitrates: 8, 12, 16, 20, 24, 32, 32 float, 64 float<br>Sample Rates: All (tested from 6kHz to 192kHz)<br>Channels: Mono, Stereo |
| **Maximum concurrent number of Samples** | Only limited by the Device Memory |
| **Sample Memory** | Depends on the limit of the Device,<br>goes from 48mb up to 512mb or more |

## 26.3    Audio (Sample) Editor

| | |
|---|---|
| **Graphical Waveform Editor** | Yes (Mono, Stereo) |
| **Auto Snap Start/End Markers to Zero-Crossing** | Yes (can be turned off in the settings) |
| **Editor features** | Cut<br>Copy<br>Paste Insert<br>Paste Mix<br>Paste Overwrite<br>Crop<br>Delete<br>Smooth Delete (X-Fades at the edges)<br>Mute<br>Swap Stereo Channels |
| **Audio Processing features** | Level +/-<br>Normalize (channels linked or independent)<br>Fade-In<br>Fade-Out<br>Connect (interpolate linearly between two samples)<br>Reverse<br>Invert Phase<br>Remove DC Offset<br>Noise Gate<br>Pitch Shift<br>Time Compress/Expand |
| **Undo/Redo** | Yes (unlimited) |
| **Sample Recording** | Yes (Microphone required) |
| **Sample Recording Formats (Microphone)** | Bitrates: 8, 16<br>Sample Rates: 22.05, 32, 44.1, 48kHz<br>(Note: some devices support max 44.1kHz)<br>Channels: Mono, Stereo |

## 26.4    Sequencer

| | |
|---|---|
| **Tempo** | 20.0..999.0 bpm |
| **Shuffle/Swing** | 50..75 (+ swing affected steps selection) |
| **Swing/Shuffle ON/OFF (per Track)** | Yes |
| **Step Timing** | 16th<br>32th<br>64th<br>8th Triple<br>16th Triple<br>32th Triple |
| **Individual Step Timing, Pattern Length, and Shuffle/Swing per Track** | Yes<br>**G-Stomper producer only** |
| **Steps per Bar** | 1..16 |
| **Micro Steps per Step** | 0..31 |
| **Conditional Steps** | Yes (Drum Machine only) |
| **Pattern Length in Bars** | 1..8 (1..128 steps) |
| **Time Signature Wizard** | Choose from a wide range of musical Time Signatures |
| **Parameter Automation** | Yes |
| **Step Edit Automations** | Yes |
| **Note Shifting** | Yes (+/-1 Semitone / +/-1 Octave) |
| **Real-Time Recording** | Yes |
| **Tempo Lock** | Yes (keep Tempo until next Stop)<br>**Not available in G-Stomper Producer** |
| **Step Shifting** | Yes (+/-1 Step / +/-1 Bar) |
| **Stop Lock** | Yes (enable to keep the Sequencer running on screen lock) |
| **Rhythm Arpeggio** | Yes (Drum Machine only)<br>**Not available in G-Stomper Producer** |
| **Stutter Effect** | Yes<br>**Not available in G-Stomper Producer** |

## 26.5    Effects

| Effects | 3 chainable FX (regular FX chain, 47 Effect Types)<br>2 sum / Master Insert FX (master, 43 Effect Types)<br>2 Insert FX per Mixer Channel (43 Effect Types)<br><br>Independent Pitch & Speed control per Drum Sampler Track<br>1 dedicated 12/24dB Filter Section per Drum Sampler Track<br>2 dedicated 12/24dB Filter Sections per VA-Beast Voice |
|---|---|
| **Effect Types** | |
| **Dynamic Processors** | Compressor/Limiter *sc<br>Compressor/Limiter II *sc<br>Compressor (simple) *sc<br>Limiter (simple) *sc<br>Stereo Tool<br>Gate *sc<br>Transient Shaper *sc<br>Exciter **<br>Bottom Booster **<br>Stereo Enhancer ** |
| **Distortion Effects** | Distortion<br>Overdrive<br>Overdrive II<br>Saturation<br>Bit Crusher<br>Waveshaper<br>Bender Distortion |
| **Delay/Reverb** | Stereo Delay *<br>Single X-Delay *<br>Dual X-Delay *<br>LFO X-Delay *, **<br>Reverb *(pre-delay)<br>Reverb (X-Large) *(pre-delay)<br>Short Delay ** |
| **Modulation Effects** | Tremolo **<br>Auto Panner **<br>Chorus/Flanger **<br>Phaser **<br>Static Phaser (no LFO) |
| **Filters** | LP Filter 12dB **, *ef, *sc<br>HP Filter 12dB **, *ef, *sc<br>LP Filter 24dB **, *ef, *sc |

| | HP Filter 24dB **, *ef, *sc<br>BP Filter 12dB **, *ef, *sc<br>Notch Filter 12dB **, *ef, *sc<br>Moog LP Filter 24dB **, *ef, *sc<br>Moog HP Filter 24dB **, *ef, *sc<br>EQ (1-Band) **<br>EQ (2-Band) |
|---|---|
| **Other Effects** | Single Pitch Shifter<br>Dual Pitch Shifter<br>Granulator<br>Pan/Vol<br>Vocoder A (8-Band) *sc<br>Vocoder B (8-Band) *sc<br>Vocoder C (8-Band) *sc<br>Vocoder D (8-Band) *sc |

\* Tempo sync
\*\* Tempo synchable LFO
\*ef Envelope Follower
\*sc Side Chain Support (regular FX chain only)

## 26.6    Mixer

| | |
|---|---|
| **Channels** | Up to 24 Drum Sampler Tracks<br>Up to 12 VA-Beast Synth Tracks<br><br>**G-Stomper Producer only**:<br>1 Tempo Track<br>1 FX Track (for the regular FX Chain)<br>1 Master Track |
| **Per Channel Insert Effects** | 2 FX Units (43 Effect Types) |
| **Per Channel Equalizer** | 3-Band Parametric |
| **Per Channel Analyzer** | Channel Spectrum Analyzer |
| **Channel Volume Link** | Move one single Fader to reduce/increase the Volume of all Channels at once |
| **Lock Mono** | Temporary switch the mix to mono to get better control over levels and frequencies |

## 26.7    Master

| | |
|---|---|
| **Master Out** | Vol/Pan |
| **Master Insert Effects** | 2 FX Units (43 Effect Types) |
| **Master Equalizer** | 3-Band Parametric |
| **Master Spectrum Analyzer** | Master Out Spectrum Analyzer |
| **Master Phase Scope** | Master Out Phase Scope / Phase Correlation Meter |

## 26.8    Audio

| | |
|---|---|
| **Audio Output Format** | 16bit, 44.1/48kHz, Stereo |
| **Internal Audio Format** | **G-Stomper Studio, Rhythm and VA-Beast:**<br>32bit float, 18kHz-96kHz, Stereo<br><br>**G-Stomper Producer:**<br>32bit float, 32kHz-96kHz, Stereo |
| **High Quality DSP algorithms** | Overall 32bit float |
| **Audio Export/Recording Formats** | Bitrates: 8, 16, 24, 32 float<br>Sample Rates: 22.05, 32, 44.1, 48, 64, 88.2, 96kHz<br>Channels: Mono, Stereo |
| **Sample Recording Formats (Microphone)** | Bitrates: 8, 16<br>Sample Rates: 22.05, 32, 44.1, *48kHz<br>Channels: Mono, Stereo<br>* Some devices support max 44.1kHz |
| **Audio Export/Recording Post Processing** | Level Normalization to 0dB (channels linked/independent) |
| **Audio Export** | **G-Stomper Studio:**<br>Single and Bulk Pattern Export<br>Song Export<br>Single and Multi-Track Bouncing (Resampling)<br><br>**G-Stomper Rhythm & VA-Beast (standalone):**<br>Single Pattern Export<br><br>**G-Stomper Producer:**<br>Single and Bulk Scene Export<br>Song Export<br>Single and Multi-Track Bouncing (Resampling) |
| **Audio Export Modes** | Sum Export (1 File)<br>Track separated Export (1 File per Track) |
| **Real-Time Audio Session Recording** | Audio Session Recorder to record your live jams in real-time without quality loss |
| **Audio Export as Ringtone** | Yes |
| **Supported User-Sample Formats** | Uncompressed wav, aif, aiff<br>Bit Rates: 8, 12, 16, 20, 24, 32, 32 float, 64 float<br>Sample Rates: All (tested from 6kHz to 192kHz)<br>Channels: Mono, Stereo |

| Sample Memory | Depends on the limit of the Device, goes from 48mb up to 512mb or more |
|---|---|
| **Audio Integration / Audio Systems** | AudioTrack<br>OpenSL (low latency)<br>AudioTrack N (low latency)<br>AAudio (low latency)<br><br>**Note:**<br>OpenSL requires 1ghz quad-core CPU (or faster) &<br>Android Lollipop (5.0)<br>AudioTrack N requires Android Nougat (7.0)<br>AAudio requires Android Oreo (8.1) |

## 26.9    Synchronization

| **Ableton Link** | Play in sync with any Link-enabled app and/or Ableton Live (Wireless LAN required) |
|---|---|
| **MIDI Clock** | IN/OUT |

## 26.10  MIDI

| | |
|---|---|
| **MIDI over USB OTG (host)** | Yes (Android 5.0 and higher) |
| **MIDI over USB OTG (peripheral)** | Yes (Android 6.0 and higher) |
| **MIDI over Bluetooth LE (host)** | Yes (Android 6.0 and higher) |
| **MAX concurrent USB/BLE MIDI devices** | Official = 1, Experimental = 2 |
| **MIDI-IN** | Yes |
| **MIDI-OUT** | Yes |
| **Timing Clock / Tempo Sync** | Yes, IN/OUT |
| **Start, Stop, Continue** | Yes, IN/OUT (Latency compensated) |
| **Global** | Full MIDI control, IN/OUT |
| **Drum Sampler** | Full MIDI control, IN/OUT |
| **VA-Beast Synthesizer** | Full MIDI control, IN/OUT |
| **MIDI CC/Key Learn** | Yes |
| **MIDI Channel/Interface Learn** | Yes |
| **Use Tracks as pure MIDI Instruments** | Yes (disables internal audio output) |
| **MIDI Import** | **G-Stomper Studio:**<br>Song Import<br><br>**G-Stomper Rhythm & VA-Beast (standalone):**<br>Single Pattern Import<br><br>**G-Stomper Producer:**<br>Song Import |
| **Midi Export** | **G-Stomper Studio:**<br>Single and Bulk Pattern Export<br><br>**G-Stomper Rhythm & VA-Beast (standalone):**<br>Single Pattern Export<br><br>**G-Stomper Producer:**<br>Single and Bulk Scene Export |

## 26.11   General

| Minimum device specs | **G-Stomper Studio, Rhythm and VA-Beast:** <br> 1GHz Dual-Core CPU <br> 800 * 480 screen resolution <br> Android 5.x <br><br> **G-Stomper Producer:** <br> 1.2GHz Quad-Core CPU <br> 1280 * 720 screen resolution <br> Android 5.x |
|---|---|
| **Recommended device specs** | 2GHz Quad-Core CPU or faster <br> 1980 * 1080 screen resolution <br> Android 6.x or higher |
| **Storage Access Permission** <br> **Read/Write External Storage** | Our mobile apps mandatorily require read and write access to your device storage to be able to load and save musical content, such as Patterns, Pattern Sets, Sound Sets, Synthesizer Presets, Generic Synthesizer Presets (.sfz), Audio Samples (.wav, .aif, .aiff), and MIDI files (.mid, .midi). |
| **Microphone Access** <br> **Record Audio** | Our mobile apps require access to your microphone to be able to record new audio samples in use of the integrated graphical audio editor. If you start the audio editor in the particular app (e.g. by long pressing the main record button) and then press the record button in the audio editor, then (and only then) the app will access your microphone as long as choose to record audio. As soon as you press the stop button in the audio editor or when you exit the audio editor, the app will stop accessing your microphone. |
| **Location Access** <br> **Access Fine Location** | Our mobile apps require access to your device's location to be able to search/scan for Bluetooth Low Energy (hereinafter "Bluetooth LE", "BLE") MIDI devices, such as MIDI controllers, MIDI interfaces or MIDI extenders. If you press the "Scan for Bluetooth LE MIDI Devices" button in the MIDI settings of the particular app, then (and only then) the app will access the device's location in order to find Bluetooth LE MIDI devices around you. |
| **Internet Access** | Our mobile apps require internet access for the use of Ableton Link. Ableton Link is a technology that synchronizes beat, phase and tempo of Ableton Live and Link-enabled apps over a wireless network. In order to access a wireless network, our apps require the internet access permission. |

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|---|---|
| **App2Sd support** | Yes |
| **Multi-Touch enabled:** | All G-Stomper Apps provide full Multi-Touch support |

## 26.12   Product Comparison Chart

| | G-Stomper Studio | G-Stomper Rhythm | G-Stomper VA-Beast | G-Stomper Producer |
|---|---|---|---|---|
| **Drum Machine** | Y | Y | N | Y |
| **Sampler Note Grid** | Y | N | N | Y |
| **Sampler Track Grid** | Y | Y | N | N |
| **Sampler Drum Pads** | Y | Y | N | Y |
| **VA-Beast Synthesizer** | Y | N | Y | Y |
| **VA-Beast Poly Grid** | Y | N | Y | Y |
| **VA-Beast Full Size KB** | Y | N | Y | Y |
| **Mixer** | Y<br>3-band EQ per Channel<br>2 Insert FX per Channel<br>(43 FX Types) | Y<br>3-band EQ per Channel<br>2 Insert FX per Channel<br>(43 FX Types) | Y<br>3-band EQ per Channel<br>2 Insert FX per Channel<br>(43 FX Types) | Y<br>3-band EQ per Channel<br>2 Insert FX per Channel<br>(43 FX Types) |
| **FX Section (send FX)** | Y<br>3 FX units<br>(47 FX types)<br>Side Chain support | Y<br>3 FX units<br>(47 FX types)<br>Side Chain support | Y<br>3 FX units<br>(47 FX types)<br>Side Chain support | Y<br>3 FX units<br>(47 FX types)<br>Side Chain support |

| Master Section | Y<br>3-band EQ<br>2 sum FX units<br>(43 FX types) | Y<br>3-band EQ<br>2 sum FX units<br>(43 FX types) | Y<br>3-band EQ<br>2 sum FX units<br>(43 FX types) | Y<br>3-band EQ<br>2 Insert FX<br>(43 FX types) |
|---|---|---|---|---|
| Timing & Measure | Y<br>One Timing<br>per pattern | Y<br>One Timing<br>per pattern | Y<br>One Timing<br>per pattern | Y<br>Individual Timing<br>per pattern and track |
| Tempo- & Beat-Matcher<br>for Turntable like sync | Y | Y | Y | N |
| Step Sequencer | Y<br>1-8 bars per pattern<br>1-16 steps per bar | Y<br>1-8 bars per pattern<br>1-16 steps per bar | Y<br>1-8 bars per pattern<br>1-16 steps per bar | Y<br>Individual patterns per track<br>1-8 bars per pattern<br>1-16 steps per bar |
| Pattern Set /<br>Live & Song Arranger | Y<br>64 concurrent patterns<br>per pattern set<br>Max 999 pattern changes<br>per song | N | N | N |
| Per Track Pattern Set /<br>Live Pattern Arranger | N | N | N | Y<br>64 concurrent patterns<br>per track |
| Scene Set /<br>Live Scene Arranger | N | N | N | Y<br>Up to 64 scenes for creative<br>Live Arrangements |
| Graphical Multi-Track<br>Song Arranger | N | N | N | Y<br>Up to 39 Tracks |

| | | | | |
|---|---|---|---|---|
| **Audio (Sample) Editor** | Y | Y | Y | Y |
| **Sample Recording** | Y<br>(Microphone required)<br>8-16 bit<br>22.05-44.1/48 kHz<br>mono/stereo | Y<br>(Microphone required)<br>8-16 bit<br>22.05-44.1/48 kHz<br>mono/stereo | Y<br>(Microphone required)<br>8-16 bit<br>22.05-44.1/48 kHz<br>mono/stereo | Y<br>(Microphone required)<br>8-16 bit<br>22.05-44.1/48 kHz<br>mono/stereo |
| **Audio Export** | Y<br>Single Pattern Export<br>Bulk Pattern Export<br>Song Export<br>Single & multi track<br>Sum (1 file)<br>Track separated (n files)<br>8-32 bit<br>22.05-96 kHz<br>mono/stereo | Y<br>Single Pattern Export<br>Single & multi track<br>Sum (1 file)<br>Track separated (n files)<br>8-32 bit<br>22.05-96 kHz<br>mono/stereo | Y<br>Single Pattern Export<br>Single & multi track<br>Sum (1 file)<br>Track separated (n files)<br>8-32 bit<br>22.05-96 kHz<br>mono/stereo | Y<br>Single Scene Export<br>Bulk Scene Export<br>Song Export<br>Single & multi track<br>Sum (1 file)<br>Track separated (n files)<br>8-32 bit<br>22.05-96 kHz<br>mono/stereo |
| **Track Bounce** | Y<br>Single & multi track | N | N | Y<br>Single & multi track |
| **Sample Bounce** | Y | N | N | Y |
| **Real-Time Audio Session Recording** | Y<br>8-32 bit<br>22.05-96 kHz<br>Mono/Stereo | Y<br>8-32 bit<br>22.05-96 kHz<br>Mono/Stereo | Y<br>8-32 bit<br>22.05-96 kHz<br>Mono/Stereo | Y<br>8-32 bit<br>22.05-96 kHz<br>Mono/Stereo |

| User-Sample Support | Y<br>Uncompr. wav, aif, aiff<br>8-64 bit<br>all sample rates<br>mono/stereo | Y<br>Uncompr. wav, aif, aiff<br>8-64 bit<br>all sample rates<br>mono/stereo | Y<br>Uncompr. wav, aif, aiff<br>8-64 bit<br>all sample rates<br>mono/stereo | Y<br>Uncompr. wav, aif, aiff<br>8-64 bit<br>all sample rates<br>mono/stereo |
|---|---|---|---|---|
| Ableton Link | Y<br>Sync with Link-enabled apps and/or Ableton Live | Y<br>Sync with Link-enabled apps and/or Ableton Live | Y<br>Sync with Link-enabled apps and/or Ableton Live | Y<br>Sync with Link-enabled apps and/or Ableton Live |
| MIDI Support | Y<br>IN/OUT<br>USB OTG<br>BLE (Android M) | Y<br>IN/OUT<br>USB OTG<br>BLE (Android M) | Y<br>IN/OUT<br>USB OTG<br>BLE (Android M) | Y<br>IN/OUT<br>USB OTG<br>BLE (Android M) |
| Midi Import | Y<br>Pattern Set/Song Import | Y<br>Single Pattern Import | Y<br>Single Pattern Import | Y<br>Project/Song Import |
| MIDI Export | Y<br>Single Pattern Export<br>Bulk Pattern Export | Y<br>Single Pattern Export | Y<br>Single Pattern Export | Y<br>Single Scene Export<br>Bulk Scene Export |
| G-Stomper Studio<br>Pattern Set/Song Import | N | N | N | Y |
| G-Stomper Studio<br>Pattern Import | N | N | N | Y |
| G-Stomper VA-Beast<br>Pattern Import | Y | N | N | Y |
| G-Stomper Rhythm<br>Pattern Import | Y | N | N | Y |

| High Quality<br>Audio Engine | Y<br>32 bit float DSP | Y<br>32 bit float DSP | Y<br>32 bit float DSP | Y<br>32 bit float DSP |
|---|---|---|---|---|
| Motion Sequencing /<br>Automation Support | Y<br>Record, generate, randomize<br>and step edit<br>Automations | Y<br>Record, generate, randomize<br>and step edit<br>Automations | Y<br>Record, generate, randomize<br>and step edit<br>Automations | Y<br>Record, generate, randomize<br>and step edit<br>Automations |
| Tempo Automation | Y | N | N | Y |