

G-Stomper Studio

G-Stomper Rhythm

G-Stomper VA-Beast

User Manual

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24 Technical Specifications

24.1 Product Comparison Chart

| | G-Stomper Studio | G-Stomper Rhythm | G-Stomper VA-Beast |
|---------------------------------------|---|--|--|
| Drum Machine | Y | Y | N |
| Sampler Note Grid | Y | N | N |
| Sampler Track Grid | Y | Y | N |
| Sampler Drum Pads | Y | Y | N |
| VA-Beast Synthesizer | Y | N | Y |
| VA-Beast Poly Grid | Y | N | Y |
| VA-Beast Full Size Piano | Y | N | Y |
| Mixer | Y Channel 3-band EQ Channel Insert FX (43 FX Types) | Y Channel 3-band EQ Channel Insert FX (43 FX Types) | Y Channel 3-band EQ Channel Insert FX (43 FX Types) |
| FX Section (send FX) | Y 3 FX units (47 FX types) Side Chain support | Y 3 FX Units (47 FX types) Side Chain support | Y 3 FX units (47 FX types) Side Chain support |
| Master Section | Y 3-band EQ 2 sum FX units (43 FX types) | Y 3-band EQ 2 sum FX units (43 FX types) | Y 3-band EQ 2 sum FX units (43 FX types) |
| Timing & Measure | Y | Y | Y |
| Step Sequencer | Y 1-8 bars per pattern 1-16 steps per bar | Y 1-8 bars per pattern 1-16 steps per bar | Y 1-8 bars per pattern 1-16 steps per bar |
| Pattern Set / Live & Song Arranger | Y 64 concurrent patterns per pattern set Max 999 pattern changes per song | N | N |
| Audio (Sample) Editor | Y | Y | Y |

| | | | |
|-----------------------------------|---|---|---|
| Sample Recording | Y (Microphone required) 8-16 bit 22.05-44.1/48 kHz mono/stereo | Y (Microphone required) 8-16 bit 22.05-44.1/48 kHz mono/stereo | Y (Microphone required) 8-16 bit 22.05-44.1/48 kHz mono/stereo |
| Audio Export | Y Single Pattern Export Bulk Pattern Export Song Export Single & multi track Sum (1 file) Track separated (n files) 8-32 bit 22.05-96 kHz mono/stereo | Y Single Pattern Export Single & multi track Sum (1 file) Track separated (n files) 8-32 bit 22.05-96 kHz mono/stereo | Y Single Pattern Export Single & multi track Sum (1 file) Track separated (n files) 8-32 bit 22.05-96 kHz mono/stereo |
| Track Bounce | Y Single & multi track | N | N |
| Sample Bounce | Y | N | N |
| Real-Time Audio Session Recording | Y 8-32 bit 22.05-96 kHz Mono/Stereo | Y 8-32 bit 22.05-96 kHz Mono/Stereo | Y 8-32 bit 22.05-96 kHz Mono/Stereo |
| User-Sample Support | Y Uncompr. wav, aif, aiff 8-64 bit all sample rates mono/stereo | Y Uncompr. wav, aif, aiff 8-64 bit all sample rates mono/stereo | Y Uncompr. wav, aif, aiff 8-64 bit all sample rates mono/stereo |
| Ableton Link | Y Sync with Link-enabled apps and/or Ableton Live | Y Sync with Link-enabled apps and/or Ableton Live | Y Sync with Link-enabled apps and/or Ableton Live |
| MIDI Support | Y IN/OUT USB OTG BLE (Android M) | Y IN/OUT USB OTG BLE (Android M) | Y IN/OUT USB OTG BLE (Android M) |
| Midi Import | Y Pattern Set/Song Import | Y Single Pattern Import | Y Single Pattern Import |

| | | | |
|---|--|--|--|
| MIDI Export | Y Single Pattern Export Bulk Pattern Export | Y Single Pattern Export | Y Single Pattern Export |
| G-Stomper VA-Beast Pattern Import | Y | N | N |
| G-Stomper Rhythm Pattern Import | Y | N | N |
| High Quality Audio Engine | Y 32 bit float DSP | Y 32 bit float DSP | Y 32 bit float DSP |
| Motion Sequencing / Automation Support | Y Record, generate, randomize and step edit Automations | Y Record, generate, randomize and step edit Automations | Y Record, generate, randomize and step edit Automations |
| Tempo Automation | Y | N | N |

24.2 Main Modules

| | |
|--------------------------------|---|
| Drum Machine: | Sampling Drum Machine with max 24 Tracks |
| Sampler Note Grid: | Monophonic Grid Sequencer for Melodies with max 24 Tracks |
| Sampler Track Grid: | Multi Track Step Sequencer with up to 24 Tracks |
| Sampler Drum Pads: | 24 Multi-Touch Drum Pads for live playing. |
| VA-Beast Synthesizer: | Polyphonic virtual analog Synthesizer, max 12x multi-timbral |
| VA-Beast Poly Grid: | Polyphonic Grid Sequencer with max 12 VA-Beast Tracks |
| Mixer: | Line Mixer (up to 36 channels, 2 Insert FX per channel) |
| FX Section (regular FX chain): | 3 chainable Effect Units, 47 Effect types |
| Master Section: | 2 sum Effect Units, 43 Effect types |
| Timing & Measure: | Settings for Tempo, Swing, Step Timing, Length per Bar in Steps, Pattern Length in Bars, Tempo- & Beat-Matcher for Turntable like synchronisation with other equipment. |
| Pattern Set: | Live- & Song-Arranger 64 preloaded Patterns Up to 999 Pattern changes per Song |

24.3 Drum Sampler

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|-------------------------------------|--|
| Max nr of Sampler Tracks: | 24 |
| Real-time Sample Manipulation: | Yes |
| Sample / Track Settings: | <ul style="list-style-type: none"> Panorama Accent Amount Volume Sample Start Point Sample Length Sample Pitch (optionally independent from Sample Speed) Sample Speed (independent from Pitch) Shuffle (on/off per Track) Roll (off, 2x, 3x, 4x, 5x, 6x, 7x, 8x) Normalize Sample Sample Reverse Randomized Fill-In |
| Modulation Envelope: | 1 |
| Modulation Envelope Modes: | AD (Linear + Logarithmic) |
| Modulation Envelope Reverse: | Yes |
| Modulation LFO: | 1 |
| Modulation LFO Waveforms: | <ul style="list-style-type: none"> Triangle Saw Pulse Random Smooth Random Triple Peak Sine |
| Modulation LFO Invert: | Yes |
| Filter Section (per Sampler Track): | <ul style="list-style-type: none"> Resonant Filter with 8 different Filter types 12dB Low Pass 12dB High Pass 24dB Low Pass 24dB High Pass 12dB Band Pass 12dB Notch 24dB Moog Low Pass 24dB Moog High Pass |
| Mute Groups: | 4 free assignable Mute Groups for |

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

24.4 VA-Beast Synthesizer

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|---|--|
| Max nr of Synthesizer Tracks: | 12 |
| Max nr of Synthesizer Voices per Track: | 12 |
| Oscillators: | 2 (+ 1 hidden Oscillator in the Osc Modulator) |
| Oscillator Waveforms: | Saw Pulse Triangle Sine Noise 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 |
| Oscillator Sync: | Yes (All except Dual Sine and PCM) |
| Oscillator FM: | Yes (Dual Sine, Sine1 > Sine2) |
| Oscillator Modulation: | FM (Osc2 > Osc1) Differential FM (Osc2 > Osc1) Ring Modulation (Osc2 > Osc1) Distortion/Ring Modulation (Mod Osc > Osc1/Osc2) Distortion (Distortion > Osc1/Osc2) Filter FM (Osc2 > Filter Cutoff) Filter Resonance Modulation (Osc2 > Filter Resonance) |
| FM Algorithms: | Phase Modulation (like in DX7) Log+ Log+/- Lin+ Lin+/- |
| Modulation LFOs: | 3 |
| Modulation LFO Waveforms: | Triangle Saw Pulse Random Smooth Random Triple Peak Sine |
| Modulation LFO Invert: | Yes |

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|-----------------------------------|--|
| Modulation LFO Single Cycle Mode: | Yes |
| Modulation Envelopes: | 3 |
| Modulation Envelope Modes: | AD AHR AD Repeat |
| Modulation Envelope Invert: | Yes |
| Modulation Envelope Attack Types: | Linear Exponential Offset |
| Pitch Wheel: | Yes, free assignable Up/Down range |
| Modulation Wheel: | Yes, free assignable Morph Group |
| Sustain Pedal: | Yes |
| Filter 1+2 (per Voice): | Resonant Filter with 8 different Filter types 12dB Low Pass 12dB High Pass 24dB Low Pass 24dB High Pass 12dB Band Pass 12dB Notch 24dB Moog Low Pass 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 Exponential Offset |
| Filter 2 Routing: | Serial and Parallel |
| Amp Envelope: | ADSR |
| Amp Envelope Attack Types: | Linear Exponential |
| Vibrato (per voice): | Global Vibrato to give your sounds the final touch |
| Arpeggio: | Arpeggiator with 4 different operation modes Up to 4 Octaves |

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|---------------------------------------|--|
| 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 Unlimited User Presets |
| Add-On Pack Support: | Yes (several Add-On Packs available) |
| Preset Import Format: | SFZ |
| User-Samples Support: | Yes (Multi-Sample based PCM Module) |
| Supported User-Sample Formats: | Uncompressed wav, aif, aiff Bitrates: 8, 12, 16, 20, 24, 32, 32 float, 64 float Sample Rates: All (tested from 6kHz to 192kHz) Channels: Mono, Stereo |
| Maximum concurrent number of Samples: | Only limited by the Device Memory |
| Sample Memory: | Depends on the limit of the Device, goes from 48mb up to 512mb or more |

24.5 Audio (Sample) Editor

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|---|--|
| 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 Copy Paste Insert Paste Mix Paste Overwrite Crop Delete Smooth Delete (X-Fades at the edges) Mute Swap Stereo Channels |
| Audio Processing features: | Level +/- Normalize (channels linked or independent) Fade-In Fade-Out Connect (interpolate linearly between two samples) Reverse Invert Phase Remove DC Offset Noise Gate Pitch Shift Time Compress/Expand |
| Undo/Redo: | Yes (unlimited) |
| Sample Recording: | Yes (Microphone required) |
| Sample Recording Formats (Microphone): | Bitrates: 8, 16 Sample Rates: 22.05, 32, 44.1, 48kHz (Note: some devices support max 44.1kHz) Channels: Mono, Stereo |

24.6 Sequencer

| | |
|-----------------------------------|---|
| Tempo: | 30.0..300.0 bpm |
| Shuffle/Swing (per Pattern): | 50..75 (+ swing affected steps selection) |
| Swing/Shuffle ON/OFF (per Track): | Yes |
| Step Timing: | 16th 32th 64th 8th Triple 16th Triple 32th Triple |
| 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 |
| Step Shifting: | Single Track (or multi Track in Solo Mode) +/-1 Step / +/-1 Bar |
| Note Shifting: | Single Track (or multi Track in Solo Mode) +/-1 Semitone / +/-1 Octave |
| Real-Time Recording: | Yes |
| Tempo Lock: | Yes (keep Tempo until next Stop) |
| Stop Lock: | Yes (enable to keep the Sequencer running on screen lock) |
| Rhythm Arpeggio: | Yes (Drum Machine only) |
| Stutter Effect: | Yes |

24.7 Effects

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|---------------------|--|
| Effects: | <ul style="list-style-type: none"> 3 chainable Effect Units (regular FX chain, 47 Effect Types) 2 sum Effect Units (master section, 43 Effect Types) 2 Insert Effect Units per Mixer Channel (43 Effect Types) |
| | <ul style="list-style-type: none"> Independent Pitch & Speed control per Drum Sampler Track 1 dedicated 12/24dB Filter Section per Drum Sampler Track 2 dedicated 12/24dB Filter Sections per VA-Beast Voice |
| Effect Types: | |
| Dynamic Processors: | <ul style="list-style-type: none"> Compressor/Limiter *sc Compressor/Limiter II *sc Compressor (simple) *sc Limiter (simple) *sc Stereo Tool Gate *sc Transient Shaper *sc Exciter ** Bottom Booster ** Stereo Enhancer ** |
| Distortion Effects: | <ul style="list-style-type: none"> Distortion Overdrive Overdrive II Saturation Bit Crusher Waveshaper Bender Distortion |
| Delay/Reverb: | <ul style="list-style-type: none"> Stereo Delay * Single X-Delay * Dual X-Delay * LFO X-Delay *, ** Reverb *(pre-delay) Reverb (X-Large) *(pre-delay) Short Delay ** |
| Modulation Effects: | <ul style="list-style-type: none"> Tremolo ** Auto Panner ** Chorus/Flanger ** Phaser ** Static Phaser (no LFO) |

Filters:

LP Filter 12dB **, *ef, *sc
HP Filter 12dB **, *ef, *sc
LP Filter 24dB **, *ef, *sc
HP Filter 24dB **, *ef, *sc
BP Filter 12dB **, *ef, *sc
Notch Filter 12dB **, *ef, *sc
Moog LP Filter 24dB **, *ef, *sc
Moog HP Filter 24dB **, *ef, *sc
EQ (1-Band) **
EQ (2-Band)

Other Effects:

Single Pitch Shifter
Dual Pitch Shifter
Granulator
Pan/Vol
Vocoder A (8-Band) *sc
Vocoder B (8-Band) *sc
Vocoder C (8-Band) *sc
Vocoder D (8-Band) *sc

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

24.8 Mixer

| | |
|-----------------------------|---|
| Channels: | Up to 36 Tracks |
| Per Channel Equalizer: | 3-Band Parametric |
| Per Channel Insert Effects: | 2 Effect Units (43 Effect Types) |
| 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. |

24.9 Master

| | |
|-------------------------|-------------------|
| Master Out: | Vol/Pan |
| Master (sum) Equalizer: | 3-Band Parametric |

24.10 Audio

| | |
|---|--|
| Audio Output Format: | 16bit, 44.1/48kHz, Stereo |
| Internal Audio Format: | 32bit float, 18kHz-96kHz, Stereo |
| High Quality DSP algorithms: | all in 32bit float |
| Audio Export/Recording Formats: | Bitrates: 8, 16, 24, 32 float Sample Rates: 22.05, 32, 44.1, 48, 64, 88.2, 96kHz Channels: Mono, Stereo |
| Sample Recording Formats (Microphone): | Bitrates: 8, 16 Sample Rates: 22.05, 32, 44.1, *48kHz Channels: Mono, Stereo * Some devices support max 44.1kHz |
| Audio Export/Recording Post Processing: | Level Normalization to 0dB (channels linked/independent) |
| Audio Export: | Single and Bulk Pattern Export Song Export |
| Audio Export Modes: | Sum Export (1 File) 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 Bit Rates: 8, 12, 16, 20, 24, 32, 32 float, 64 float Sample Rates: All (tested from 6kHz to 192kHz) Channels: Mono, Stereo |
| Sample Memory: | Depends on the limit of the Device, goes from 48mb up to 512mb or more |
| Audio Integration: | AudioTrack OpenSL (low latency) AudioTrack N (low latency) Note: OpenSL requires 1ghz quad-core CPU (or faster) and Android 4.2 (or higher). AudioTrack N requires Android Nougat (7.0) |

24.11 Synchronization

Ableton Link: Play in sync with any Link-enabled app and/or Ableton Live (Wireless LAN required)

MIDI Clock: IN/OUT

24.12 MIDI

MIDI over USB OTG (host): Yes (Android 4.2.x 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

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: Pattern Set incl. Song Arrangement

MIDI Export: Single and Bulk Pattern Export

24.13 General

| | |
|---------------------------------|---|
| Minimum device specs: | 1GHz Dual-Core CPU 800 * 480 screen resolution Android 4.2.x |
| Recommended device specs: | 1.5GHz Quad-Core CPU or faster 1280 * 800 screen resolution Android 5.x or higher Headphones or external speakers SoundCloud App installed (optional for SoundCloud upload) |
| Permissions (paid & free apps): | SdCard read/write (to read/write all related files) Internet Access (for Google Analytics) View Network State (for Google Analytics) |
| Permissions (free apps only): | Internet Access (to display advertisements) View Network State (to display advertisements) |
| App2Sd support: | Yes |
| SoundCloud Integration: | Yes |
| Multi-Touch enabled: | Yes All G-Stomper Apps provide full Multi-Touch support |