



Mod Squad Pro

Dear Customer:

Thank you for downloading our Mod Squad Pro bundle of 33 Max for Live modulation effects. Designed by **Ableton Certified Trainer Noah Pred**, Mod Squad Pro is optimized for Push with full Info View annotations. Each modulator comes in two versions: one taking advantage of Live 12's new modulation features, and another version compatible with Live 10 and 11. All applicable modulators come with trigger counting and probability, flexible off-set delay, freeze, offset, jitter, precise smoothing time, and depth exaggeration. Map up to eight target parameters per modulator and let the magic unfold...

Included Max MIDI effects

- **MIDI ADSRx** – probabilistically trigger optionally BPM-synchronized ADSR envelopes with numerous advanced modes.
- **MIDI Autodubber** – probabilistically generate maximum value spikes with each note on within specified ranges for designated periods while otherwise residing at a minimum value.
- **MIDI Cyclor** – harness incoming notes to trigger a cascade of values, counting between 2 and 512 in three directions: up, down, or up and down. The value slope count can be randomized at each cycle.
- **MIDI Cyclor Pro** – same as above, with additional features including note off mode count exclusion, linear slew ramping, and an asymmetrical slope mode where count randomization occurs at each peak and each valley, rather than only after a full cycle.
- **MIDI Key Tracker** – probabilistically generate modulation values from incoming MIDI note pitch, velocity, velocity with gate returning to minimum, or gate only, with optional delay.
- **MIDI LFOx** – probabilistically generate advanced, flexible synchronized LFO curves with optional cycle reset in bars or triggered via incoming MIDI and audio-rate MIDI pitch LFO rate mode constrainable to Global Hub or your Live 12 set's key and scale, with depth optionally controlled by pitch or velocity.
- **MIDI LFOx Pro** – all the features describe above, but with powerful new random algorithms, plus four deep and powerful new editable modulation modes: Draw to instantly and intuitively create custom shapes, Lines for intricate breakpoint shapes, Steps for up to 64 modulation steps constrainable to a variety of ranges, and Audio to drag and drop an audio waveform as a modulation source.
- **MIDI S&H** – probabilistically generate random values with each note on within specified ranges.
- **MIDI S&H Pro** – all the features described above, but with six powerful new random algorithms, inverse count masking, up to eight extra individual randomizer mappings, and more.
- **MIDI X-Control** – a macro knob optionally quantized to incoming MIDI note on or note off messages within constrainable ranges.
- **MIDI X-Control Pro** – all the features describe above, but with BPM-syncable Slew time and a Snap mode to return to a specified value after Control motion stops.

Included Max Audio effects

- **Audio Cyclor** – harness incoming audio to trigger a cascade of values, counting between 2 and 512 in three directions: up, down, or up and down. The value slope count can be randomized at each cycle.
- **Audio Cyclor Pro** – same as above, with additional features including count exclusion, linear slew ramping, and an asymmetrical slope mode where count randomization occurs at each peak and each valley, rather than only after a full cycle.

- **Audio S&H** – probabilistically generate random values when incoming signal exceeds a specified threshold.
- **Audio S&H Pro** – all the features described above, but with six powerful new random algorithms, inverse count masking, up to eight extra individual randomizer mappings, and more.
- **Audiodubber** – probabilistically generate maximum value bins when incoming signal exceeds a specified threshold for designated periods while otherwise residing at a minimum value.
- **Autodubber** – probabilistically generate maximum value spikes for designated periods while otherwise residing at a minimum value.
- **Follower** – envelope follower with tempo-synchronized base rate and multiplier delay time, jitter, smoothing, step rate sampling, and an easy flip control for instant sidechain usage.
- **Gain Tracker** – amplitude-based audio-rate modulation.
- **LFOx** – probabilistically generate advanced, flexible base rate multiplied, BPM-synchronized LFO curves with optional cycle reset in bars, and audio-rate pitch-based LFO rate controlled via dial, constrainable to Global Hub or your Live 12 set's key and scale, with depth optionally controlled by pitch or velocity.
- **LFOx Pro** – all the features describe above, but with powerful new random algorithms, plus four deep and powerful new editable modulation modes: Draw to instantly and intuitively create custom shapes, Lines for intricate breakpoint shapes, Steps for up to 64 modulation steps constrainable to a variety of ranges, and Audio to drag and drop an audio waveform as a modulation source.
- **Manual S&H** – probabilistically generate random values when a MIDI-mappable, automateable button is clicked.
- **Manual S&H Pro** – all the features described above, but with six powerful new random algorithms, output quantization, slew rate quantization, and up to eight extra individual randomizer mappings.
- **Mod Looper** – a real-time modulation looper with loop remixing, rate control, inversion, auto-punch out, and auto-record, with up to 512 instances. Remote control only.
- **OSCx** – flexible, intuitive utility to send modulation and control data to other applications via OSC or UDP protocol.
- **Pitch Tracker** – generate modulation values from the detected frequency of incoming signal, with optional delay.
- **X-Combine** – combine up to three different modulation sources with four different mathematical operations per combination: add, subtract, multiply, or divide. Only supports remote control.
- **X-Control** – a macro knob optionally quantized to a variety of synchronized rates for ladder-style parameter changes.
- **X-Control Pro** – all the features describe above, but with BPM-syncable Slew time and a Snap mode to return to a specified value after Control motion stops.

Included Audio Effect Racks

- **X-Control 8** – control up to 64 parameters anywhere in your set, including on the Master track, via eight rack macros, each mapped to eight corresponding unmapped X-Control instances.
- **X-Control 4** – control up to 32 parameters anywhere in your set, including on the Master track, via four rack macros, each mapped to four corresponding unmapped X-Control instances, with the other four rack macros assigned to Rate, Multiplier, Jitter, and Smoothing for all four X-Controls contained within.

Installation

Drag the MFA Mod Squad folder containing all .amxd files to your User Library presets or another secure folder within Live's User Library, accessible from Live's browser. Once there, simply drag and drop any .amxd file to appropriate tracks in Ableton Live.

Requirements

Live 10.1.35 Suite or higher, running Max 8.1.11 or higher; Live 12.1.5 required for Pro S&H Extra Mapping access.

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FAQ & Troubleshooting

The effects don't make any notes or sound – why?

All Mod Squad devices only produce a control modulation signal, reacting to either MIDI, audio, or purely random generation. To deploy this modulation signal, the devices must be mapped to active parameters in other devices in your Live set.

Sometimes when attempting to map a parameter I get a "modulation assignment not supported" warning – what should I do?

Due to internal dependencies, certain device parameters will not allow modulation in certain versions of Live; in the rare case you get this message, simply toggle the assignment to Remote control mode and you should be able to otherwise assign it as desired.

There's no manual but I need more help – where can I find it?

Manifest Audio LLC does not offer support on free devices, but every control in Mod Squad is fully annotated for Live's Info View, so just open the Info View area and hover over any parameter in Cheat Code for an explanation of its behavior and functionality.

Where can I find more cool stuff from Manifest Audio?

Just click **here** to visit our website.

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