Guitar Effects Processor

Highlights

- *World-class Lexicon reverb: Plate, Gate, Hall, Chamber, and Ambience*
- *2 DSP engines including Lexicon's proprietary LexiChip®*
- *24-bit A/D and D/A*
- *250 presets; 50 user programs*
- *Lexicon's analog distortion technology Dynamic Gain for screaming overdrive and distortion*
- *Two separate audio paths to place effects both in front of the amp and in its effects loop*
- *Use without an amp as a stand-alone preamp with effects*
- *Over 70 effects*
- *Balanced analog inputs and outputs (XLR and 1/4")*
- *Tap Tempo for instant setting of delay and modulation times (may be set using footswitch)*
- *Full MIDI control*
- *Internal power supply*
- *Optional MPX R1 remote controller*

Hardware

The MPX G2 contains all hardware needed in a custom guitar effects rig. It offers quick and simple location of specific styles such as Rock or Blues, as well as types of programs such as Overdrive. Complete editing features facilitate the customization of presets, the creation of new programs, the design of Soft Row parameters, the uplication of effects into new programs, and the arrangement of fects into any sequence or routing configuration.

Effects

The MPX G2 contains a "Hall of Fame" assortment of guitar effects such as **Chorus, Compressors,** analog **Distortions** and **Overdrives,** tape-style **Echoes, Flangers,** vibey **Phasers, Pitch Shifters,** and vintage **Wahs**. A bypass button can defeat any of its 76 effects, which are broken into seven types. Six of the seven Gain effects are designed for use as stomp boxes in front of the guitar amp, where they deliver the same sound as the classics that inspired their design. A "Feel" control for the Overdrive effect dials in the amount of sag associated with different batteries and power supplies. A fully featured, programmable recording Preamp dials in tones ranging from super-clean to high-gain. A built-in analog speaker simulator applies the finishing touches with 16 cabinet variations. The MPX G2 also offers a collection of vintage effects including: Octabuzz, Orange Phaser, Red Comp, Sweep Filter, Tremolo, UniVybe, and Wah (Type "C" or "V"), each faithful to the feel and sound of the original. Other essential effects include **Auto Panner, Multi-voice Stereo Chorus, Detune, Diatonic Harmony, Mono** and **Stereo Flangers, Pitch Shifter,** and **Volume Pedal,** as well as **Rotary** and other time-based modulation effects. There are also several Mono and Stereo delay effects: Auto Looper, Ducking Delay, ultra clean digital Delays, warm Echoes, and a JamMan® phrase looper. Delay times can be set with time values, or rhythmically with the Tap button. A special Feedback Insert allows other effects to be placed inside the delay feedback loop, a studio secret used to create some classic delay textures. A tone tool box allows users to polish and shape sounds. These tools include Mono and Stereo Parametric Equalizers (1,2,3, and 4-band), as well as a crossover and frequency splitter. Classic Lexicon reverb is well represented with **Plate, Gate, Hall, Chamber,** and **Ambience** effects. Dedicated processing resources allocated to these reverbs guarantee their availability in any program no matter which other effects are loaded.

MPX G2

Stomp Box and Rack Effects

Effects like Cry Baby®, Dyna Comp®, Mu-tron III®, Octavia®, Tube Screamer®, and UniVibe® became classics because of their sound and feel when connecting a guitar to the front end of an amp. The MPX G2 recreates these vintage effects, allowing users to place them between the guitar and the input to the amp. It also offers unique methods to control noise that results when stomp boxes are used with high-gain guitar amps. An analog hard-wire relay provides a direct path between player, guitar, and amplifier when effects are not in use. An analog noise gate is located at the end of the stomp box path with the sensing at the input of the G2. This accommodates a wide range of dynamics without triggering the gate, which is factory preset to be manually operated with the guitar's volume control. Send classic rack effects such as Delay, EQ, Pitch Shift, and Reverb to the amp effects loop by connecting it to the MPX G2 Insert Returns. A digital noise gate at the beginning of the audio path controls noise without muting the tails of post-gain effects.

Direct Recording

The MPX G2 is the most complete direct recording processor available for guitars. Its built-in, fully programmable analog preamp delivers a wide range of dynamic sounds. It offers a set of programs for stand-alone applications, including an Amp Collection of more than 20 different amps, each with the clarity and dynamics that can only be delivered by analog circuitry. The Studio Effects and Studio Spaces programs are just as impressive. Studio Spaces makes use of Lexicon's world-class reverb algorithms to provide an assortment of recording rooms that place air and space around the guitar during mix down and tracking. The result is like adding a few reverberators and several live tracking rooms to the studio. The effects include an Acoustic Room, Gated Verb, Jazz Club, PCM 60 Room, Rhythm Room, Solo Room, Tape-delayed Plate, and Tracking Room, as well as a program that varies the position of a close microphone in front of a high-gain amp. Studio Effects offer a collection of classic studio effects for recording guitar tracks. Each has an appropriate built-in amp variation. For maximum control, users can add sounds from the Amp Collection to Studio Spaces or Studio Effects. The analog speaker simulator featured in the MPX G2 allows any external preamp or processor to become the tone source for these recording treatments.

Effect Ordering and Routing

Effect ordering and routing within each program is flexible with the MPX G2. Each effect block is independent in each program. Effects can be arranged in any order by "dragging and dropping" them on a visual map. Editing MPX G2 programs is simple. A front panel Soft Row button accesses the most useful parameters of each program, while front panel System and Edit buttons provide all controls needed to create or reconfigure programs.

Patching System

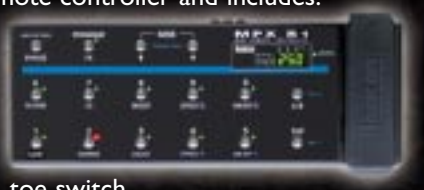
In addition to controls built into certain effects, the MPX G2 patching system provides controllers such as A/B Glide, LFOs, and Tempo that can be assigned to chosen effect parameters. Users can assign up to five per program. In addition, there are ten global patches available for use in all programs.

MIDI Implementation

The MPX G2 allows MIDI control of all effect parameters, as well as A/B and Tap. It can transmit its own MIDI clock based on front panel Tap Tempo, or synchronize Tempo parameters to incoming MIDI clock messages. All internal control sources, including LFOs and pedals, can be transmitted as MIDI Controller Messages. Additionally, the G2 can perform standard bulk data dump and load functions.

MPX R1 MIDI Remote Controller

The optional MPX R1 adds foot control to the MPX G2 and MPX 1. A single cable provides power and 2-way communication. Dedicated stomp box style buttons and LEDs allow complete access to all of the effects. The MPX R1 can also be used as a stand-alone MIDI remote controller and includes:



- Stomp box control of MPX 1 or MPX G2
- Metal chassis, pedal and switches
- MIDI program select and control
- Programmable expression pedal with toe switch
- Dedicated footswitches for TAP tempo and MPX 1 A/B switching
- 2 programmable relays switch up to 4 amplifier channels and control multiple effects at once. Relay settings can be stored with MPX G2 programs
- MIDI setups control different devices on multiple MIDI channels with the push of a single button
- Press and hold the Bypass button to automatically mute the audio and activate a great chromatic tuner. Tuning information is displayed in real time on both the MPX G2 and the MPX R1

www.lexicon.com/mpxg2

MPX G2

Instrument Input: Mono 1/4”
Input Level: +2.2dBu to +10dBu
Input Impedance: 1megΩ, unbalanced

Return Inputs: Stereo 1/4”
Input Level: -10dBu to +18dBu (+4 nominal inputs)
Input Impedance: 50kΩ, unbalanced

Send Output: Mono 1/4” unbalanced
Output Level: +4dBu to +18dBu, unbalanced
Output Impedance: 100kΩ, unbalanced

Analog Audio Output: XLR and 1/4” balanced (T/R/S)
Output Level: +18dBu, balanced; +21dBu, unbalanced
Output Impedance: 600Ω, balanced; 100kΩ, unbalanced

Conversion: 24-bit A/D; 24-bit D/A
Internal Audio DSP: 32-bit

Frequency Response: 20Hz - 20kHz ±1dB
THD + Noise: <0.01%, 1kHz

Dynamic Range: A/A: 97dB typical, 20Hz - 20kHz, unweighted
MIDI Interface: 7-pin DIN connector for MIDI IN and powered bidirectional remote; 5-pin DIN connectors for MIDI THRU and OUT
Footswitch: 1/4" T/R/S connector for three independent footswitches
Footpedal: 1/4" T/R/S connector (10kΩ - 100kΩ impedance)

Power Requirements: 100 - 240 volts AC; 50 - 60Hz; 25 watts (3-pin IEC connector)
Remote Power In: 2.5 mm 9 volts AC (not included)

Dimensions: 19" W x 1.75" H (1U) x 13" D (483 x 45 x 330 mm), rack mount standard
Weight: 7.125 lbs. (3.2 kg)

Operating Temperature: 32° to 104°F (0° to 40°C)
Maximum Humidity: 95% without condensation

MPX R1

Construction: All metal chassis, switches and expression pedal
External control inputs: 1/4” T/R/S connector supports up to 3 on/off switches; 1/4” T/R/S connector for external expression pedal
Internal relays: 1/4” T/R/S jack connected to two internal programmable relays
MIDI Interface: 7-pin DIN connector provides phantom power and two-way MIDI communication with the MPX 1 or MPX G2
5-pin DIN connectors for MIDI THRU and IN
Expression pedal: Vintage mechanical design, all steel construction, programmable toe switch

MIDI functions: MIDI bank and program select for up to 300 programs; Switches and pedal(s) can be individually set to transmit any controller. The status of each MIDI switch is indicated with a green LED. Tap tempo can be transmitted as MIDI Clock

Relay mapping: Different relay states can be memorized for each of 990 MIDI program numbers. Relays can operate as on/off 1-4 or as two independent on/off switches

MPX functions: When connected to an MPX G2 or MPX 1 (V2.0) via 7-pin cable, LEDs automatically display the following each time a new program is loaded: Program number; Master Bypass state; A/B state; Tempo rate; State of each effect block (Pitch, Chorus, EQ, Mod, Delay, Reverb on MPX 1; Gain, Chorus, Delay, Effect 1, Effect 2, EQ, Reverb on MPX G2); effect on=green, effect bypassed=red, effect not active=off.

The state of any active effect can be instantly changed by pressing its associated switch.

Dedicated switches control A/B and tap.

Power Requirements: 9 volts AC (wall transformer included)
25-foot, 7-pin DIN cable for phantom power from MPX 1 or MPX G2 (included)

Dimensions: 23” W x 3” H x 8” D (584.2 x 76.2 x 203.2 mm)
Weight: 9.5 lbs (4.3 kg)