



Lexicon MPX 550 24 Bit Dual Channel Processor User Guide

[Home](#) » [lexicon](#) » Lexicon MPX 550 24 Bit Dual Channel Processor User Guide 

Contents

- [1 MPX 550 24 Bit Dual Channel Processor](#)
- [2 IMPORTANT SAFETY INSTRUCTIONS](#)
- [3 Introduction](#)
- [4 Getting Started](#)
- [5 Basic Operation](#)
- [6 System Mode](#)
- [7 Documents / Resources](#)
 - [7.1 References](#)

MPX 550 24 Bit Dual Channel Processor



MPX 550 24 Bit Dual Channel Processor User Guide

IMPORTANT SAFETY INSTRUCTIONS

Save these instructions for later use.

- Follow all instructions and adhere to warnings marked on the unit and in the operating instructions.
- Always use with the correct line voltage. Refer to the manufacturer's operating instructions for power requirements. Be advised that different operating voltages may require the use of a different line cord and/or attachment plug.
- Do not install the unit in an unventilated rack, or directly above heat producing equipment such as power

amplifiers. Observe the maximum ambient operating temperature listed in the product specification.

- Slots and openings on the case are provided for ventilation – to ensure reliable operation and prevent the unit from overheating. Do not block, cover, or insert objects into the openings. Never spill a liquid of any kind on the unit.
- Never attach audio power amplifier outputs directly to any of the unit's connectors.
- To prevent shock or fire hazard, do not expose the unit to rain or moisture, or operate it where it will be exposed to water.
- Do not attempt to operate the unit if it has been dropped, damaged, exposed to liquids, or if it exhibits a distinct change in performance indicating the need for service.
- Take precautions not to defeat the grounding or polarization of the unit's power cord.

This triangle, which appears on your component, alerts you to the presence of uninsulated, dangerous voltage inside the enclosure voltage that may be sufficient to constitute a risk of shock.



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

- Do not overload wall outlets, extension cords, or integral convenience receptacles, as this can result in a risk of fire or electrical shock.
- Route power supply cords so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to cords at plugs, convenience receptacles, and the point at which they exit from the unit.
- The unit should be cleaned only as recommended by the manufacturer.
- Use an outlet that contains surge suppression ground fault protection. For added protection during a lightning storm, or when the unit is left unattended and unused for a long period of time, unplug the power cord from the wall outlet. This will provide protection against damage caused by lightning or power

CAUTION: RISK OF ELECTRIC SHOCK! DO NOT OPEN!

- Do not attempt to service the unit yourself as opening or removing covers may expose you to dangerous voltage, and will void the Limited Warranty. Only a qualified technician or an authorized lexicon distributor should perform servicing.
- To prevent electric shock, do not remove the grounding plug on the power cord, or use any plug or extension cord that does not have a grounding plug provided.
- Make certain that the AC outlet is properly grounded. Do not use an adapter plug for this product.
- For continued fire hazard protection, fuses should be replaced **ONLY** with the exact value and type as indicated on the rear panel or in the user guide.

COMMUNICATIONS NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the computer with respect to the receiver.
- Move the computer away from the receiver.
- Plug the computer into a different outlet so that the computer and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to identify and Resolve Radio/TV Interference Problems."

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

A Harman International Company

Lexicon, Inc.

3 Oak Park

Bedford, MA 01730-1441 USA

Tel 781-280-0300

Fax 781-280-0490

www.lexicon.com

Customer Support

Tel 781-280-0300

Fax 781-280-0495 (Sales)

Fax 781-280-0499 (Service)

© 2002 Lexicon, Inc. All rights reserved.

This document should not be construed as a commitment on the part of Lexicon, Inc. The information it contains is subject to change without notice. Lexicon, Inc. assumes no responsibility for errors that may appear within this document.

Introduction

IMPORTANT SAFETY INSTRUCTIONS

Save these instructions for later use.

- Follow all instructions and adhere to warnings marked on the unit and in the operating instructions.
- Always use with the correct line voltage. Refer to the manufacturer's operating instructions for power requirements. Be advised that different operating voltages may require the use of a different line cord and/or attachment plug.
- Do not install the unit in an unventilated rack, or directly above heat producing equipment such as power amplifiers. Observe the maximum ambient operating temperature listed in the product specification.
- Slots and openings on the case are provided for ventilation – to ensure reliable operation and prevent the unit from overheating. Do not block, cover, or insert objects into the openings. Never spill a liquid of any kind on the unit.
- Never attach audio power amplifier outputs directly to any of the unit's connectors.
- To prevent shock or fire hazard, do not expose the unit to rain or moisture, or operate it where it will be exposed to water.
- Do not attempt to operate the unit if it has been dropped, damaged, exposed to liquids, or if it exhibits a distinct change in performance indicating the need for service.
- Take precautions not to defeat the grounding or polarization of the unit's power cord.



This triangle, which appears on your component, alerts you to the presence of uninsulated, dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock.



This triangle, which appears on your component, alerts you to important operating and maintenance instructions in this accompanying literature.

Important User Information

Lexicon is pleased to present its user guides on CD-ROM.

By utilizing CD-ROM technology we are able to provide our documentation in multiple languages.

The printed edition of the user guide is in English only.

The enclosed CD-ROM includes the user guide in multiple languages (French, German, Italian, Portuguese, and Spanish) in easy-to-use PDF format. The CD-ROM also includes Adobe® Acrobat® Readers for both PC and Macintosh platforms, enabling printing of all or any part of the documents. In addition, we have included dry audio tracks for product demonstrations. (Track 1 contains non-audio data.)

Please take a moment to read through the important safety information. For additional information about Lexicon, Inc., our products and support, please visit our web site at www.lexicon.com.

Unpacking and Inspection

After unpacking the unit, save all packing materials in case the unit ever needs to be shipped. Thoroughly inspect the modules and packing materials for signs of damage. Report any damage to the carrier at once; report equipment malfunction to the dealer.

Getting Started

ABOUT THE MPX 550

Thank you for purchasing the MPX 550 Dual Channel Processor, featuring Lexicon's proprietary Lexichip®.

The MPX 550 is a true stereo, dual-channel processor with 24-bit internal processing, analog-to-digital conversion, and digital-to-analog conversion. It offers 255 presets with classic Lexicon reverb, including Tremolo, Rotary, Chorus, Flange, Pitch, Detune, 5.5 second Delay, Echo, and Compression. Dual-channel processing creates two independent effects in Dual Stereo (Parallel), Cascade, Mono Split, and Dual Mono combinations.

A large, graphic front panel display provides at-a-glance viewing of program and system status. Programs are organized into 28 banks, with 27 for presets and 1 for user programs. The PROGRAM knob scrolls through all stored programs, or between banks for faster selection. Each program includes up to 20 adjustable parameters, which are organized into "Edit Pages" that consist of four parameters each. The Edit Pages button cycles through available Edit Pages for the selected program.

The editing process is further simplified with dedicated EDIT knobs that correspond to displayed parameters, as well as a special "Adjust" parameter for each program that facilitates quick changes to the most critical aspect of the sound. In many cases, this custom parameter controls several program parameters at once. For instance, it controls the liveness of space in many Chamber and Room programs by changing Decay, Early Reflections, and EQ simultaneously.

Tap Tempo simplifies the once-complicated process of matching the delay times and modulation rates of tempo-based programs to the music. Tempo-controlled delays and modulation rates lock to tempo. In addition, Tap Tempo can be controlled using the front panel Tap/Cancel button, audio input, a dual footswitch, or an external MIDI controller that utilizes MIDI Continuous Controller or Program Change messages.

The MPX 550 features Learn Mode, a powerful editing tool that allows MIDI patching of all parameters, as well as the Bypass and Tap/Cancel buttons. Standard Continuous Controller and Program Change messages provide complete control of these functions.

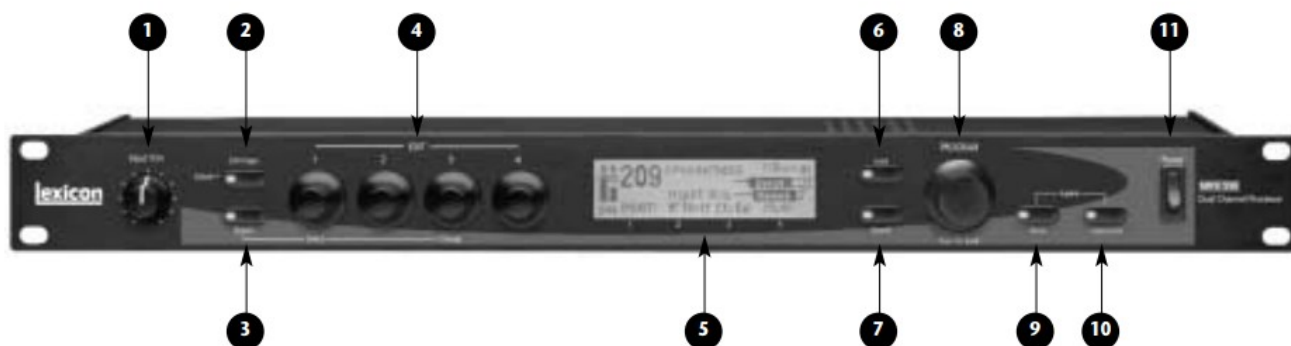
HIGHLIGHTS

- Lexicon's proprietary Lexichip
- World-class Lexicon reverb
- 24-bit internal processing
- 24-bit analog-to-digital and digital-to-analog conversion
- 255 presets
- 64 user programs
- Mastering Dynamics algorithm
- Large, graphic front panel display
- Four EDIT knobs for simple parameter adjustment
- S/PDIF IN and OUT connectors (may be set to wet or dry to accommodate use as a high-quality, stand-alone

converter)

- Balanced analog inputs and outputs (1/4 inch and XLR)
- Simultaneous analog and digital outputs
- Independent processing of each input
- Dual programs that create two independent effects with four routing configurations
- Dual effects that combine Delay with Reverb, or either Delay or Reverb with Chorus, Flange, or Pitch
- Multiple delay, modulation, and pitch effects
- Tap Tempo for instant setting of delay times and modulation rates (may be set using a footswitch)
- Full MIDI control
- Universal internal switching power supply
- MIDI IN and software-selectable MIDI OUT/THRU ports
- Push-button or footswitch selection of dry or muted audio output

FRONT PANEL OVERVIEW



1. Input Trim
Adjusts the level of the incoming analog input signal.
2. Edit Pages
Cycles through available Edit Pages for the selected program. The LED lights to indicate that a program as been modified but not stored.
3. System
Toggles between activating and deactivating System Mode. When System Mode is activated, EDIT knob 1 selects parameters; EDIT knob 3 changes the setting of the selected parameter. (See Section 3 for more information about System Mode.)
4. EDIT Knobs
Adjust parameters. Numbers 1 to 4 correspond to numbers 1 to 4 beneath the front panel display.
5. Front Panel Display
Indicates information about the current program. (See page 1-6 for more information about the front panel display).
6. Load
Loads the selected program. The LED lights when another program is cued.
7. Bypass
Mutes or bypasses the incoming signal, depending on the setting of the System Mode parameter Bypass Mode (see page 3-5).
8. PROGRAM

Scrolls through available programs and, when pushed inward, program banks.

9. Store

Activates store functions. When pressed with Tap, enters MIDI Learn Mode (see page 6-2).

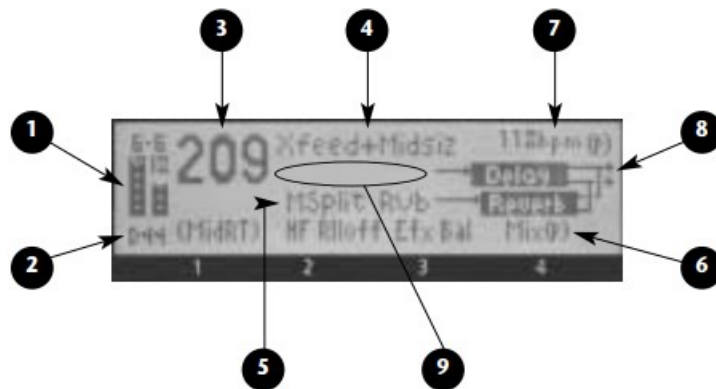
10. Tap/Cancel

Flashes to indicate tempo-based programs. When pressed twice, sets tempo. When held, uses input level or dialed-in value to determine tempo. When pressed with Store, enters MIDI Learn Mode (see page 6-2).

11. Power

Powers the unit on and off.

FRONT PANEL DISPLAY



1. Input Level Meters

Indicate incoming signal levels. Input level meters show a minimum when the incoming signal is more than -48dB digital full-scale. Level meters appear in inverse video when the signal approaches overload (-2dB digital full-scale). When signals are between these extremes, the level meters appear as shown above.

Input level meters show calibrated values, with 0dB indicating digital saturation. Markings on the open portion of each level meter show -6, -18, and -32dB. The meters have single-pixel precision in which each pixel represents 2dB.

S/PDIF digital input sources that have been mastered “hot” (at the maximum bit rate) will cause the input level meters to peak as if digital full-scale is occurring. However, the unit is just receiving the maximum output from the source, which is loud enough to peak the meters. This is not a problem as long as the source audio is not distorted. Gain reduction from the compressor is indicated by a descending bar situated between the two input level meters. It is also calibrated in 2dB increments per pixel.

2. Input/OVL Indicator

Reflects the input type in normal operation. The first letter indicates input type, which is selected with the System Mode parameter Input Source (see page 3-4).

“S” stands for stereo, “L” stands for mono left, “R” stands for mono right, and “D” stands for digital.

“NoD” appears when digital input is selected, but no valid digital audio signal is present. The number after the letter indicates the sample rate (44.1 or 48kHz). When the processor is in saturation, the letters “OVL” overwrite the input type indicator. This signals the need to reduce input levels or the value of a parameter on the verge of feedback. “OVL” does not indicate input overload.

3. Program Number

Indicates the number of the program that is loaded. When a different program is cued, its number will appear in inverse video below the program number after a period of time.

4. Program Name

Indicates the name of the selected program.

5. Bank Name

Indicates the name of the selected bank.

6. EDIT Knobs 1 to 4

Indicates the function of EDIT knobs 1 to 4.

7. Tempo

Indicates the current tempo as well as the current setting of the System Mode parameter Tempo Mode (see page 3-5) – “P” for Program, “G” for Global. If the current program is not affected by tempo, this area of the display will be blank.

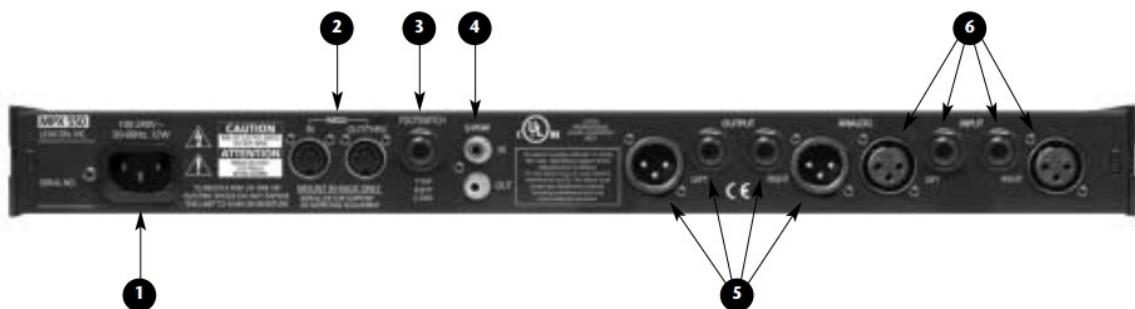
8. Routing Configuration

Shows the routing configuration for the selected program (see page 4-18).

9. Messages

Displays miscellaneous information, such as MIDI activity, Bypass state, S/PDIF status, etc. When no messages are required, this area of the display will be blank (as pictured on the previous page).

REAR PANEL OVERVIEW



1. AC Input Connector cord.

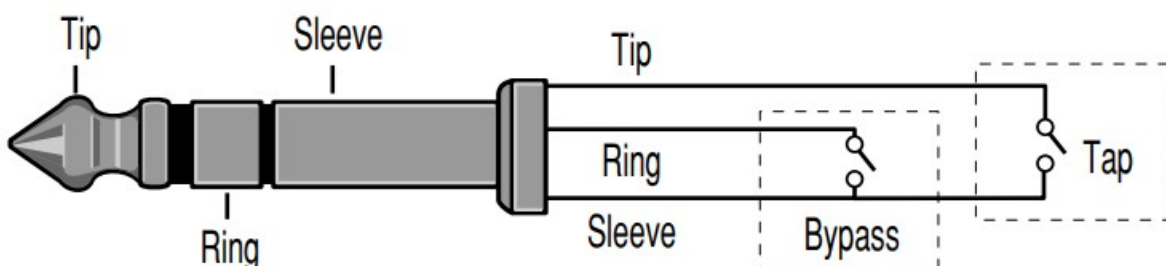
Provides power to the unit with the supplied power

2. MIDI IN and MIDI OUT/THRU

Two 5-pin DIN MIDI connectors are available for MIDI IN and software-selectable MIDI OUT/THRU.

3. FOOTSWITCH

Allows footswitch control of front panel Bypass and Tap functions. A 1/4 inch Tip/Ring/Sleeve connector and a momentary contact footswitch are available. (See page 1-10 for more information.)



4. S/PDIF IN and OUT

Provide digital audio input and output. Two RCA S/PDIF connectors are available. The unit accepts inputs at 44.1 or 48kHz.

5. ANALOG OUTPUTs

Provide analog audio output. Balanced outputs are available on either XLR or 1/4 inch Tip/Ring/Sleeve connectors.

6. ANALOG INPUTS

Provide analog audio input. Balanced inputs are available on either XLR or 1/4 inch Tip/Ring/Sleeve connectors.

CONNECTING THE UNIT

The INPUT and OUTPUT connectors on the MPX 550 are 1/4 inch Tip/Ring/Sleeve and XLR sockets. Either may be used. Connections should be made utilizing high-quality shielded cables.

The MPX 550 produces effects from either mono or stereo sources. Either input can be used for mono sources. It is recommended to use stereo outputs whenever possible. Only material with Dual Mono routing is designed for mono outputs. Use either output connector if mono output is required.

FOOTSWITCH

A footswitch connected to the rear panel FOOTSWITCH connector can be used to control front panel Tap and Bypass functions. A momentary footswitch can be wired to a Tip/Ring/Sleeve connector. A stereo Y-connector allows two identical switches to be used.

Note:

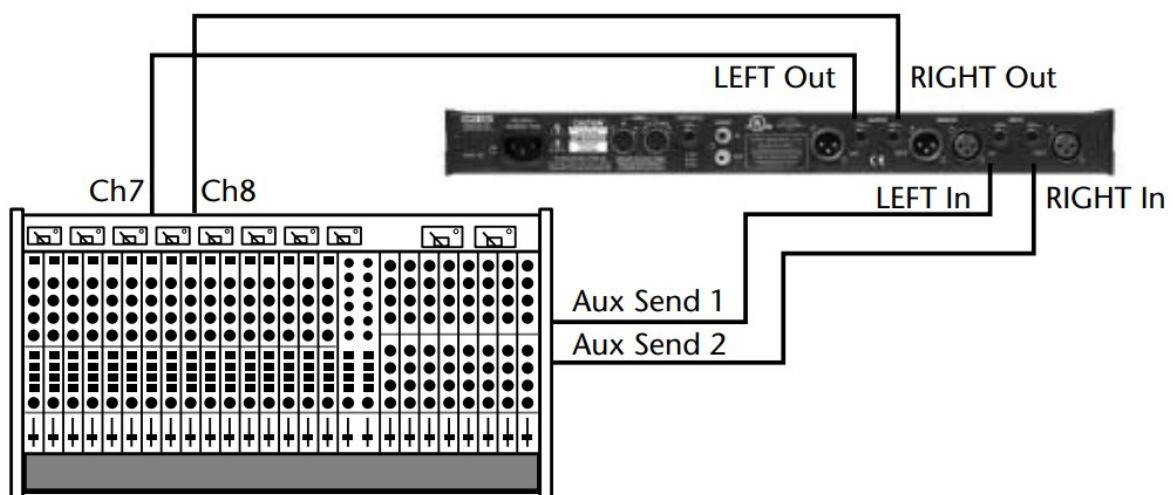
Power off the unit prior to connecting the footswitch; otherwise, Bypass functions will be enabled.

Dual-Function Footswitch

A dual-function footswitch with a set of labels to indicate Tap and Bypass functionality is available at Lexicon dealers or at www.lexicon.com.



TYPICAL CONNECTIONS TO A CONSOLE



SETTING AUDIO LEVELS

Note:

As with all audio products, it is good practice to first power on all outboard equipment, then the mixer, then the speakers.

INPUT

1. Load Program 1.
2. Set the Mix parameter to Dry (Edit Page 1, EDIT knob 4).
3. Using high-level program material, begin with a low input level and advance it slowly.

4. When audible distortion is reached or when the display clip indicators light and remain lit, lower the input level until the clip meters appear only on the highest peaks.

The Input Trim knob allows the unit to be driven by an input level within a range of +8 to +20dBu. The minimum setting (fully counterclockwise) should be optimal for +4dBu (balanced) inputs. The maximum setting (fully clockwise) should be optimal for -10dBV (unbalanced) inputs.

OUTPUT

1. Press the front panel System button to activate System Mode. Output Level, the first System Mode parameter, will be displayed.
2. Turn EDIT knob 3 to set the Output Level parameter. Unity gain for a +4dBu input device should be -12dB.
3. Press the System button again to deactivate System Mode.

Basic Operation

SELECTING AND LOADING PROGRAMS

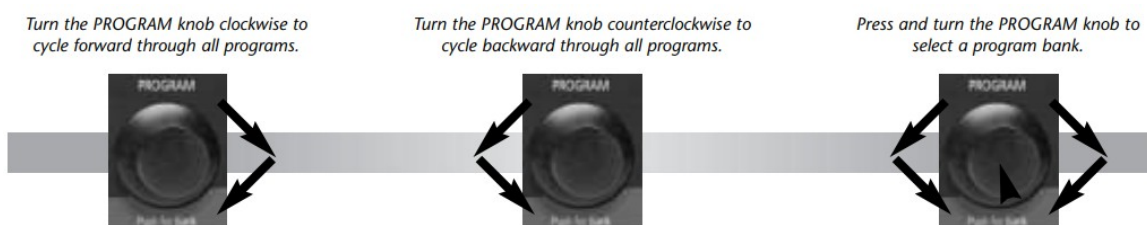
When powered on, the unit will load the last program that was loaded during the previous operating session.

To select another program, turn the front panel PROGRAM knob.

When the PROGRAM knob is turned clockwise, the unit will cycle forward through programs in the selected bank, then proceed to cycle forward through programs in the next bank. When turned counterclockwise, the unit will cycle backward through programs in the selected bank, then proceed to cycle backward through programs in the previous bank. When the PROGRAM knob is pushed inward and turned, the unit will cycle through program banks.

The name and number of the selected program appear in the front panel display (see page 1-6). The Load LED will light to indicate that the selected program is cued for loading. After 4 seconds, the front panel display will revert to showing the name and number of the loaded program. However, the Load LED will remain lit to indicate that the selected program is still cued for loading. The number of the cued program will appear in inverse video below the number of the currently loaded program. To load the cued program, press the front panel Load button.

The unit can be configured to automatically load programs 3/4 second after the PROGRAM knob stops turning. To do this, set the System Mode parameter Auto Load to Enabled (see page 3-7).



EDITING PROGRAMS

Each program features up to 20 parameters, which are organized into Edit Pages with as many as four parameters each. Press the front panel Edit Pages button to cycle through available Edit Pages for the loaded program.



Parameters available on the selected Edit Page appear across the bottom of the front panel display, as shown on page 1-6. The number below each parameter corresponds with the number above the Edit knob used to change its setting. When a parameter setting is changed, it will appear in inverse video on the front panel display and the Edit Pages LED will light to show that the program has been modified. The LED will no longer be lit when another program is loaded or if the modified version is stored.

If another program is selected before the modified program is stored, the edited version will still appear as the



loaded program. However, the Load LED will light to indicate that a new program is cued for loading.

THE "ADJUST" PARAMETER

An “Adjust” parameter has been customized for individual programs, and in most cases controls several parameters at once to handle complicated editing processes. For instance, “Adjust” controls the liveness of space in Chamber and Room programs by changing Decay, Early Reflections, and EQ simultaneously.

The “Adjust” parameter is located on Edit Page 1 and controlled with EDIT knob 1. It appears in parenthesis, such as (MidRT) pictured at the right. When EDIT knob 1 is turned, the bottom line of the front panel display shows a more complete description of the

parameter function in that program. The “Adjust” parameter is MIDI-compatible with a range of 0 to 127.



STORING PROGRAMS

The User Bank contains no programs when the MPX 550 is shipped. However, it includes 64 memory locations available for storing user-modified programs.

To store a program:

1. Press the Store button. The Store and Tap/Cancel LEDs will light to indicate that the store function is armed.

The first empty User Bank location will be selected.



To cancel the store function without saving the program, press the Tap/Cancel button. This can be done at any time before the store procedure is completed.



2. Use the PROGRAM knob to select a different User Bank location. The message area on the front panel display (see page 1-6) indicates whether the selected User Bank location is available or empty.
3. The program appears on the front panel with its original name and a numeric suffix. If desired, use EDIT knobs 1 and 3 to change the name of the program.
4. Press the Store button to save the program to the selected location. The message “Stored” will appear briefly on the display. The Edit LED will no longer be lit when the saved version becomes the selected program.

Note:

When storing a user program, allow the unit to complete the entire store process before powering the unit off. If the unit is power cycled during the process, all previously stored programs may be lost.

THE COMPRESSOR

The compressor is available in all programs, except Dynamics. (Dynamics uses a different compression mechanism, explained on page 4-33.) The compressor sits in the wet component of the signal in front of the effects in the loaded program. It is controlled with four parameters: CmpRatio, Threshld, CmpAttk, and CmpRels. These parameters are located on the last Edit Page for each program, except those in the Cmprssr. The ratio (CmpRatio) parameter can be set to ratios of 1:1 (off), 2:1, 3:1, 4:1, 5:1, and 10:1. The threshold (Threshld) parameter can be set within a 0 to -32dB range. These settings are relative to 0dBFS (digital saturation). The compressor is disabled if either the ratio parameter is set to 1:1 or the threshold parameter is set high enough to prevent the incoming signal from crossing the compression threshold. The attack (CmpAttk) and release (CmpRels) parameters determine how fast the compressor responds, within 3dB of the output level dictated by the incoming signal.

For most music material, the release time should be about four times longer than the attack time. Both must be long enough to accommodate the bass content of the music.

If the compressor is set to react faster than the waveform of the music itself, the resulting changes in output level will re-shape the waveform enough to produce undesirable audio effects. For example, 80Hz has a period of 12ms. If this is a dominant component in the music, set both the attack and release parameters to at least 12ms, even higher for better results. The compressor acts on both the left and right channels at the same time, using the sum of the two channels as its trigger.

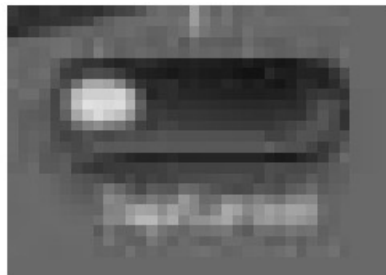
Compression presets are available in the Cmprssr Bank (see page 4-31). For other compression-only effects, send compressor output into a Dly/Eko program with the Delay parameter set to 0. The compressor does not add propagation delay to the audio path. (Note the converters introduce about 2ms of propagation delay.)

TAP TEMPO

MATCHING RHYTHM

Tap Tempo can be used to match the delay times and modulation rates of tempo-based programs with those of the music. The Tap/Cancel button LED will flash whenever a tempo-based program is loaded. The current tempo rate appears in the top-right corner of the front panel display.

It is not required to enter what “could be” the delay time in milliseconds. Just press the Tap/Cancel button twice, and the unit will calculate the appropriate delay time. To change tempo, press the Tap/Cancel button twice again in the new rhythm.



Tempo can also be set with a footswitch (see page 1-10) or MIDI control device (see page 6-4).

AUDIO TAP

To use audio input to set tempo:

1. Press and hold the Tap/Cancel button until the message “Detecting audio...” appears at the top of the front panel display. (The optional dual footswitch allows the musician to continue playing the instrument while pressing and holding the Tap button.)

Tempo parameters available for the loaded program will also appear on the front panel display.

2. Still holding the Tap/Cancel button, play two short notes in rhythm.
3. Release the Tap/Cancel button. The message “Knob to change” will appear at the top of the front panel display to indicate that EDIT knob 3 is now available to adjust tempo.
4. If desired, turn EDIT knob 3 to further adjust tempo in bpm (beats per minute).
5. Press the Tap/Cancel button to exit this mode.

Audio tap is a must for live performances. It offers a simple method of setting delay times and modulation rates to match the music.

GLOBAL TEMPO

The Tap/Cancel button LED will flash when a tempocontrolled program is loaded. Most factory presets are stored

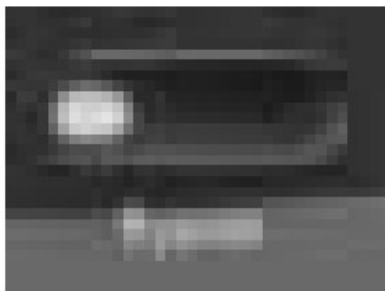
with individual tempo rates, which can be customized to suit personal taste. Tap in the new tempo, then store the modified version of the program in the User Bank.

To recall the tempo rate stored with each program, set the System Mode parameter Tempo Mode (see page 3-5) to Program. The unit will apply the individual tempo setting of each program as it is loaded. To apply the current tempo rate to all programs, set the System Mode parameter Tempo Mode to Global. The unit will ignore individual tempo settings and apply the current tempo setting to each program as it is loaded.

BYPASS

The Bypass button can be used to force the unit to pass only dry audio, to mute the outputs immediately, or to mute the inputs to the loaded program. Its function depends on the setting of the System Mode parameter Bypass Mode (see page 3-5).

When Bypass Mode is set to Dry, the unit sends only dry, unprocessed audio to the outputs. When set to Full Mute, the unit mutes the outputs. When set to Input Mute, the unit mutes the inputs only. Running effects will continue their natural decay.



Bypass functions can also be activated with a footswitch (see page 1-10) or MIDI control device (see page 6-4).

System Mode

SYSTEM MODE FUNCTIONS

System Mode can be used to set System Mode parameters, execute MIDI Dumps, and restore default settings. To enter System Mode, press the front panel System button. The System LED will light to indicate that System Mode is active.



The tables that begin at the right show System Mode functions. EDIT knob 1 selects the desired function, and EDIT knob 3 changes the parameter setting (if applicable). Changes to System Mode parameters are effective immediately. MIDI Dumps and Restore Default

Commands require confirmation to execute.

To exit System Mode, press the System button again.

Detailed descriptions of all System Mode functions begin on page 3-4.

Parameter	Settings
Output Level	0dB* to -31dB Off
Input Source	Analog Stereo* Analog Mono L, Analog Mono R S/PDIF Digital
Clock Source	Internal 44.1kHz* Internal 48kHz External (S/PDIF)
Digital Output	Processed* Dry
Mix Mode	Program* Global
Bypass Mode	Dry* Full Mute Input Mute
Program Load Mode	Bypass Dry* Full Mute
Tempo Mode	Program* Global
Compressor Mode	Program* Global

Parameter	Settings
MIDI Patches	Enabled* Disabled
MIDI Channel	Off 1* to 16 Omni
MIDI Program Change	Enabled* Disabled R1-MPX1
MIDI Clock In	Enabled* Disabled
MIDI Out/Thru	Out* Thru
Operating Mode	Normal* Demo Locked
Memory Protect	Enabled Disabled*
Auto Load	Enabled Disabled*
Display Brightness	—

MIDI Dumps	Settings (if applicable)
Dump User Bank	1-16 17-32 33-48 49-64
Dump Current Program	—
Dump System Data	—
Restore Default Commands	
Clear User Bank	
Factory Init	

PARAMETERS

Output Level (0 to -31dB, Off)

Sets output level attenuation within a 0 to -31dB range, or off.

Input Source

(Analog Stereo; Analog Mono L and R; S/PDIF Digital) Selects input type. The current selection is indicated in the lower-left corner of the front panel display. “S” stands for Analog Stereo, “L” stands for Analog Mono L, “R” stands for Analog Mono R, and “D” stands for S/PDIF digital. The number following the prefix indicates the sample rate (48 or 44.1kHz). “NoD” indicates that no valid digital audio signal is present.

When set to Analog Stereo, the unit processes signals from both analog inputs. When set to Analog Mono L, the unit sends signals from the ANALOG INPUT labelled LEFT to both processor inputs. When set to Analog Mono R, the unit sends signals from the ANALOG INPUT labelled RIGHT to both processor inputs.

When set to S/PDIF Digital, the unit processes signals from the S/PDIF IN connector. If no valid digital audio signal is present, the unit will mute and an alert message will appear on the front panel display.

Note:

When the Input Source parameter is set to S/PDIF Digital, the Clock Source parameter will automatically be set to External (S/PDIF).

Clock Source

(Internal 44.1kHz and 48kHz, External (S/PDIF)) Selects the internal or external clock source for the unit.

When set to Internal 44.1kHz, the unit utilizes an internal clock with a 44.1kHz sample rate. When set to Internal 48kHz, the unit utilizes an internal clock with a 48kHz sample rate. When set to External (S/PDIF), the unit utilizes the S/PDIF input signal, even if an analog source is used. “NoD” will appear in the lower-left corner of the front panel display if no valid digital input signal is present to utilize for the external clock.

Digital Output (Processed, Dry)

Selects the source for the digital output. When set to processed, the digital output is the same as the analog outputs. Its mix level will reflect the current setting of the Mix parameter. When set to Dry, the digital output is the input. This setting is useful for recording dry tracks while still providing processing at the analog outputs.

Mix Mode (Program, Global)

Controls the mix level that is applied when a new program is loaded. Mix levels are stored with each program. When Mix Mode is set to Program, the unit applies the stored mix level of the selected program to that program as it is loaded. When set to Global, the unit ignores stored mix levels and applies the current mix level to each program as it is loaded.

Bypass Mode (Dry, Full Mute, Input Mute)

Sets the function of Bypass. When set to Dry, the unit sends only dry, unprocessed audio to the outputs. When set to Full Mute, the unit mutes the outputs. When set to Input Mute, the unit mutes the inputs only. Running effects will continue their natural decay.

Program Load Mode (Bypass Dry, Full Mute)

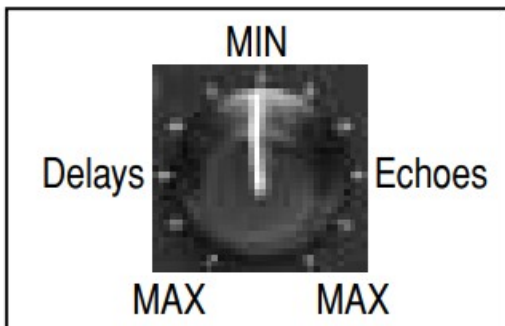
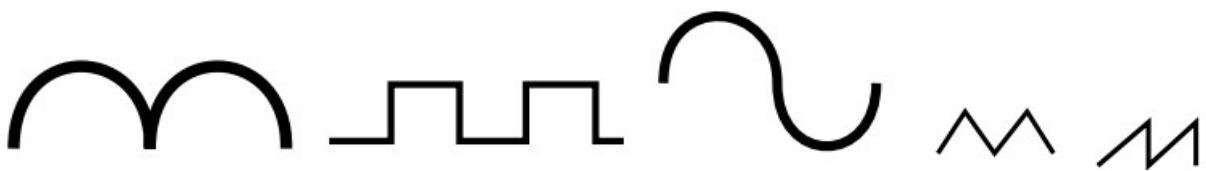
Controls the processing of incoming audio signals during program load. When set to Bypass Dry, the unit sends only dry, unprocessed audio to the outputs. When set to Full Mute, the unit mutes during program load.

Tempo Mode (Program, Global)

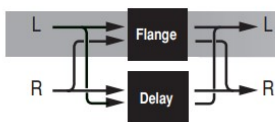
Controls the tempo setting that is applied when a new program is loaded. A tempo setting is stored with each program. When Tempo Mode is set to Program, the unit applies the stored tempo setting of each program as it is loaded. When set to Global, the unit applies the current tempo setting to each program as it is loaded.

Compressor Mode (Program, Global)

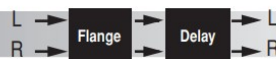
Controls the compression settings that are applied when a new program is loaded. Compression settings are stored with each program. When Compressor Mode is set to Program, the unit applies the stored setting of each program as it is loaded. When set to Global, the unit applies the current compression setting to each program as it is loaded.



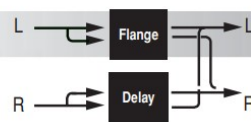
Dual Stereo (Parallel)



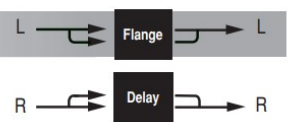
Cascade



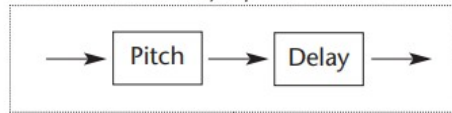
Mono Split



Dual Mono

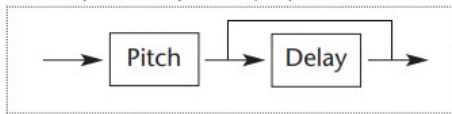


50:50%: Provides delayed pitch shift.



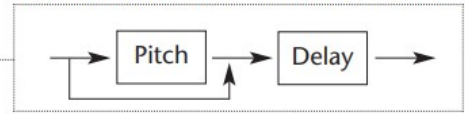
75:25%:

Provides pitch shift, plus delayed pitch shift.

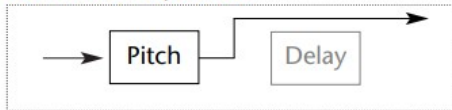


25:75%:

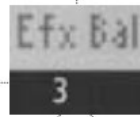
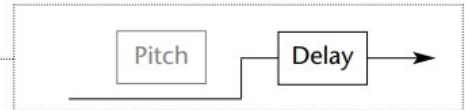
Provides delayed pitch shift, plus delayed dry signal.



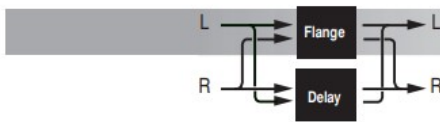
100:0%: Provides pitch shift.



0:100%: Provides delayed dry signal.



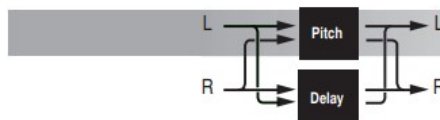
Dual Stereo (Parallel)



Cascade



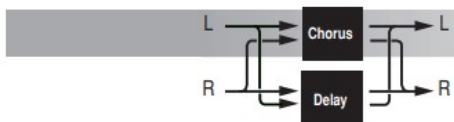
Dual Stereo (Parallel)



Cascade



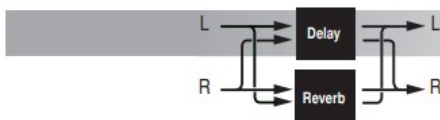
Dual Stereo (Parallel)



Cascade



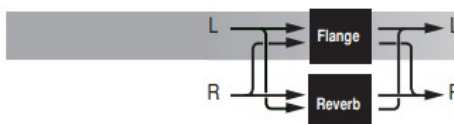
Dual Stereo (Parallel)



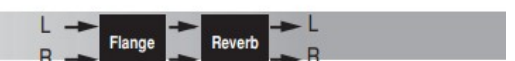
Cascade



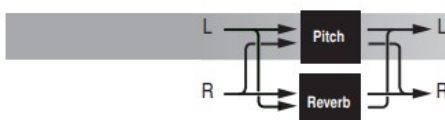
Dual Stereo (Parallel)



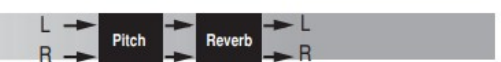
Cascade



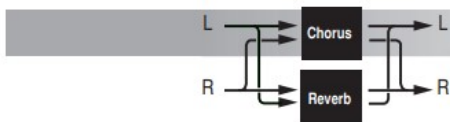
Dual Stereo (Parallel)



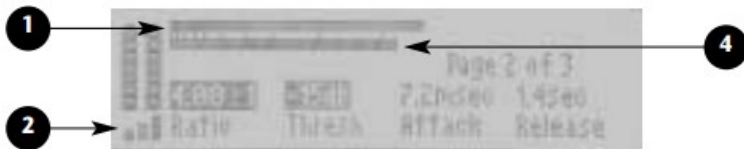
Cascade



Dual Stereo (Parallel)



Cascade



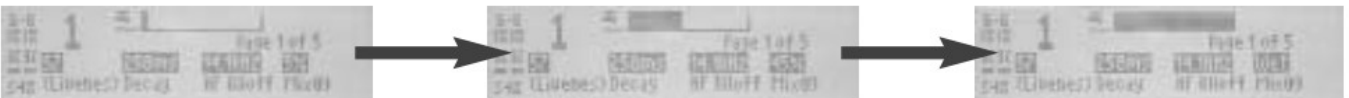
When the Decay parameter setting is changed, the graphics pictured below appear.



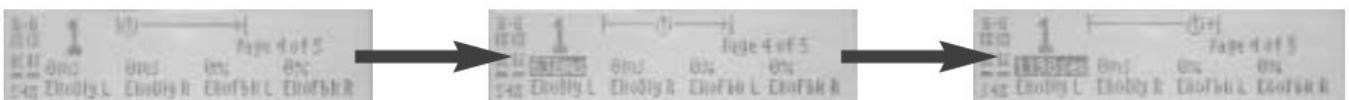
When the HF Rloff parameter setting is changed, the graphics pictured below appear.



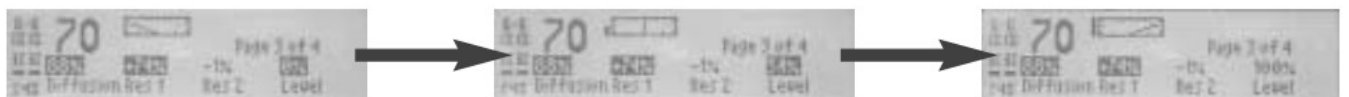
When the Mix parameter setting is changed, the graphics pictured below appear.



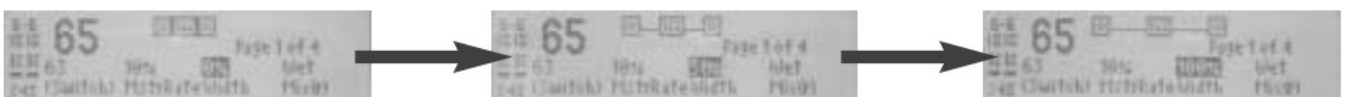
When a delay parameter setting is changed, the graphics pictured below appear.



When the Level parameter setting is changed, the graphics pictured below appear.



When the Width parameter setting is changed, the graphics pictured below appear.



The parameters controlled with the EDIT knobs can be patched to Continuous Controller messages.



Press the Store and Tap/Cancel buttons simultaneously to activate and deactivate Learn Mode.



Bypass and Tap/Cancel can be patched to Program Change and Continuous Controller messages.



Program Change messages can be used to load programs.

Documents / Resources



[Lexicon MPX 550 24 Bit Dual Channel Processor](#) [pdf] User Guide
MPX 550 24 Bit Dual Channel Processor, MPX 550, 24 Bit Dual Channel Processor, Dual Channel Processor, Channel Processor, Processor

References

- [lex Lexicon US](#)
- [Manual-Hub.com - Free PDF manuals!](#)
- [User Manual](#)

Manuals+. [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.