



T E C H N O L O G I E S

MiDiGENERATOR

Quick Start

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Introduction

Make it live. Control, generate and modulate your MIDI tracks in performance.

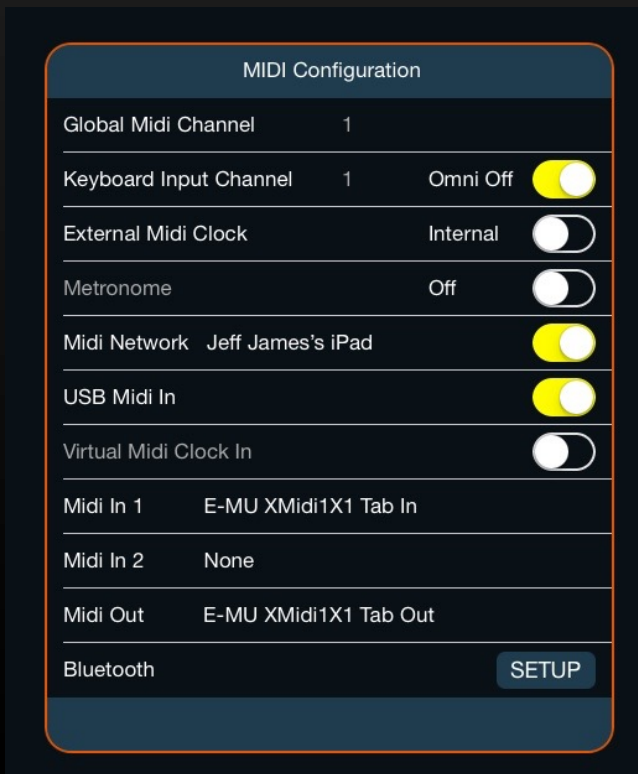
Here are just some of the things you can do:

- Chord or note arpeggiation
- Multiple virtual sequence triggering
- A/B MIDI deck morph and cross mix
- Physics-enabled XY pad and fader modulation
- Advanced track modulation
- Intelligent randomization and random generation

MIDI Setup

How to setup MIDI to connect to external MIDI devices.

Plug the camera connection kit to your device and connect it to a USB MIDI adapter. Connect the USB MIDI out to an external MIDI synthesizer input. For performance, connect the MIDI in to a MIDI keyboard output.



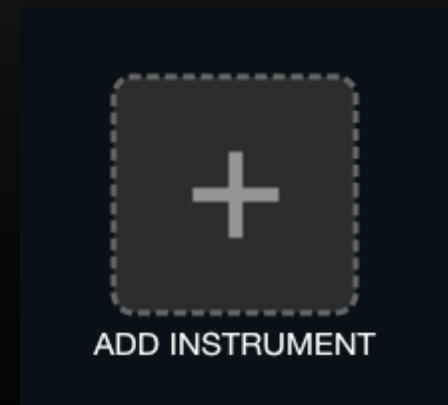
Set the Keyboard Input Channel to 1 by tapping the number. Turn Omni on if you do not know the MIDI channel output from your MIDI keyboard.

Inter App Audio Setup

Setup IAA if you want to connect to other IAA music apps on your device .

Tap ADD INSTRUMENT to connect to an app running on the same device. Likely you will want to connect to a synth.

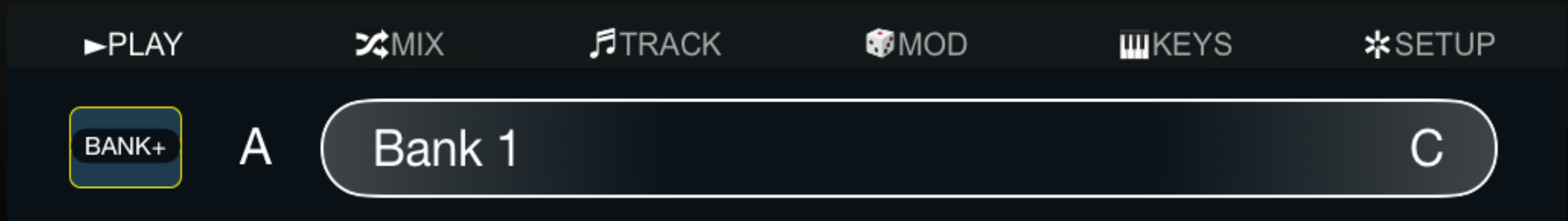
Choose apps listed as (instrument) in the pop-up list.



Bank Setup

Tap the PLAY tab to configure the bank and its tracks. To select another bank, tap on the bank name to pick a new one.

Tap the A or B to switch to the alternate mix bank. Touch BANK+ to create, rename or copy a bank.



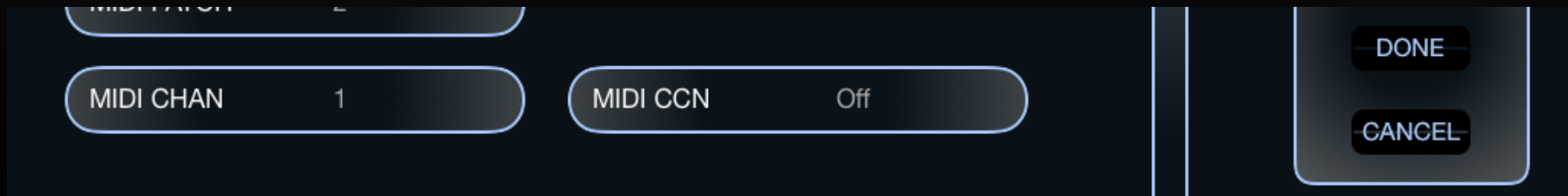
Track MIDI Channel Setup

The track MIDI channel determines the MIDI channel number output to your MIDI synthesizer for that track.

A new bank presets tracks 1 through 8 to MIDI channels 1 through 8. To change a channel number, tap the PLAY track yellow gear to view the PROG pop-up menu for that track.



Select the MIDI CHAN and move the slider or touch the increment buttons to change the channel. Tap DONE to save the change.



Program Track

A track's steps may be programmed in the following ways:

- Regeneration
- Track MIDI Record
- Track Step Arpeggiation
- Step Program
- Standard MIDI File upload

One may import MIDI tracks from a computer sequencer. Eight tracks may be imported at a time, per bank. A computer sequencer, sysex MIDI utility and Signal Arts converter utility is required. Please refer to the MiDiGenerator Supplement Manual for detailed instructions.

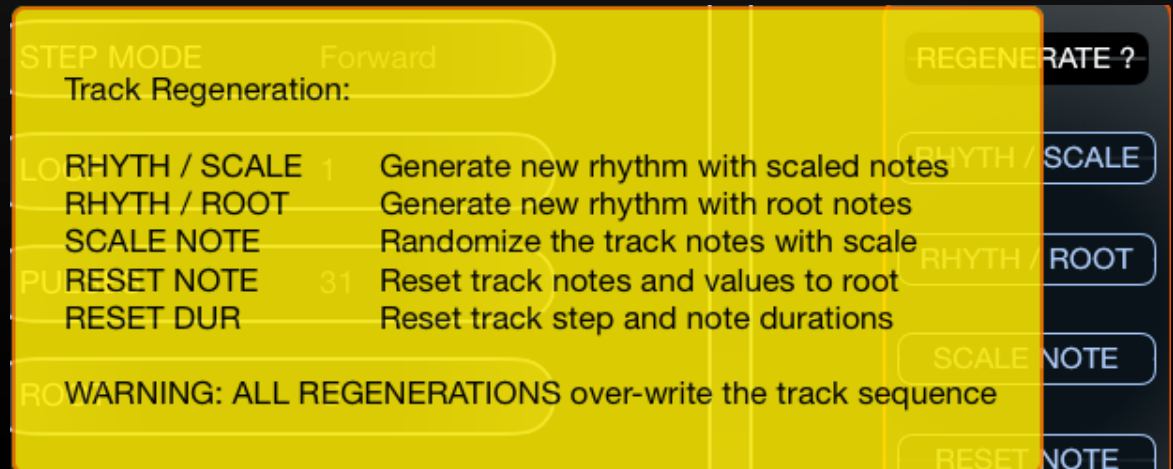
Regeneration

Regeneration is the auto-generation of a track's steps.

A track's length is based upon the LENGTH parameter set in its PROG menu. A track's default length is 8 steps. To set a track's length, tap the PLAY track gear PROG menu and select LENGTH. Set the length value to the desired amount (up to 256 slots). The PULSES value determines the number of steps in the track. PULSES may be increased up to the LENGTH amount. Therefore the ratio of LENGTH steps to PULSES determines the randomness of a generated rhythm.

The track may be auto-generated in the track PROG menu. Select a regeneration as follows. Tap REGENERATE? to bring up this help:

A SCALE and ROOT may also be selected to determine the the random note values. The SEED value affects the range of note randomness.



Track Record

MIDI Record - A track may be recorded from the KEYS tab or a MIDI keyboard. The audio metronome may be turned on to aid in the recording process. Tab to SETUP and turn Metronome on.

To record, tab to PLAY. First select the track yellow INPUT triangle. Tap REC. The first note played begins the recording. Tap track STOP or REC again to stop the recording.



Step Arpeggiation - Another form of recording, is done with the ARP trigger mode. In this case, only the note values change as input from KEYS or a MIDI keyboard. Normally the track should be played while notes are input to affect change. When more than one sequence iteration is playing on the same track, all iterations will change in the same way!



Step Program

As this app is to be used in performance, it was not designed to be a MIDI sequence editor and there are many other programs which are able to do that. However, if needed, step values may be adjusted in the TRACK view.

Adjust the track view FRAME to locate a step. If desired, use STEP/GRID to position the view based upon step duration. Tap a cell to view its properties which appear in the list at the bottom left side of the view. Tap the increment buttons to adjust those values.

The interface displays a track view with 32 steps. The first step is highlighted with a yellow grid. Below the track, a control panel shows various parameters and controls.

Track View: A horizontal bar containing 32 steps. The first step is highlighted with a yellow grid. The number 8 is displayed on the left side of the track.

Control Panel:

- Parameters:**
 - NOTE: Bb4
 - VEL: 64
 - CC: 0
 - NOTE DUR: 1/8
 - STEP DUR: 1/8
- Bank:** A large button labeled "Bank 1".
- Navigation:** A row of 8 yellow buttons labeled 1 through 8, and a red circular button.
- Adjusters:**
 - FRAME: A button with a minus sign and a plus sign.
 - STEP / GRID: A button with a minus sign and a plus sign.
 - STEP VALUE: A button with a minus sign and a plus sign.
- Help:** A circular button with a question mark.

Set Trigger Mode

For keyboard control of the tracks there are a number of trigger modes. The trigger modes are essential to the performance capabilities of the MiDiGenerator. In the PLAY and KEYS tab views there are five yellow square buttons that set the function for incoming MIDI notes. The THRU button by-passes the app triggers and sends MIDI notes to MIDI out. The TMODE button treats MIDI notes as set in the PROG menu TRIG MODE. The other trigger buttons over-ride the PROG menu TRIG MODE.



The TMODE trigger mode is selected in the track PROG menu - TRIG MODE as follows:

Multiple - A sequence iteration is created for each MIDI note received for the track. Each iteration is unique to the MIDI note transposition and velocity. This is great for percussive and rhythmic effects!

Multiple Arp - A sequence iteration is created for each touch of the track's play button. MIDI notes received set the step values of the running sequence(s), thus creating arpeggiations of the notes entered.

Single - One sequence is triggered on the track for the initial trigger event. Subsequent MIDI notes received transpose the sequence, according to the note, as the sequence plays. Only one sequence plays at a time on the track.

Step - Each step of the sequence is played, one per trigger.

Other Track Properties

The track PROG menu contains other track properties.

STEP MODE - The step mode sets the sequence step direction behavior.

LOOP - A track loop is set to zero by default. Zero loops forever. LOOP may be set to a fixed number, up to 256 loops.

RAND FUNC - This sets the random function for the PLAY - RAND, track randomization button. All step parameters may be randomized. The RAND button over-writes the track.

MODULATION XYZ - Each track's MOD XY pad and Z fader modulator is assigned here.

Perform

The MiDiGenerator may be performed in many ways:

From the app's track play and stop buttons on the PLAY, MIX and TRACK views

From the app's KEYS keyboard

From a USB MIDI keyboard

From another virtual MIDI app on the same device

From another Bluetooth MIDI device

From a computer via Core Audio WIFI/USB MIDI

From a computer via OSC

The app may be remotely controlled from a computer OSC program or other OSC network device. See the MiDiGenerator Supplement Manual for details.

There are many ways to use this app and some yet to be thought of.

So enjoy living off the grid!