

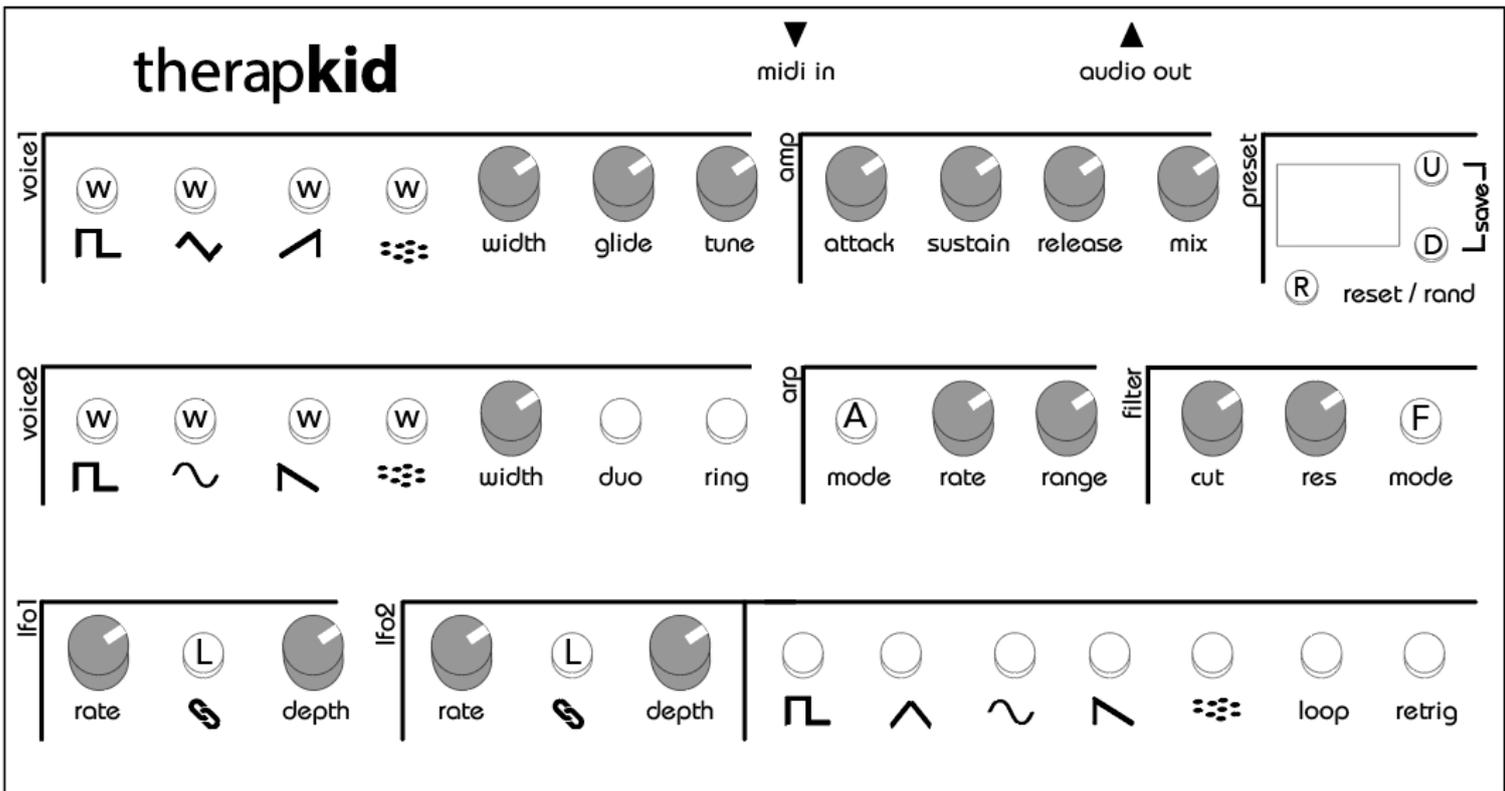
TherapKid User Manual

May 18th 2019

Thanks for adapting therapKid!

Ⓜ =Waveform Ⓤ =Preset Up ⓓ =Preset Down Ⓡ =Preset Reset/Randomize

Ⓛ =LFO Link ⓐ =Arp Mode ⓕ =Filter Mode



Save Preset: Ⓤ + ⓓ

Randomize Preset: Ⓡ 2 Sec

Change MIDI Channel: ⓐ + ⓕ

Detune individual Waveform: Ⓜ + tune knob

Mix individual Waveform: Ⓜ + mix knob

Assign LFO to a knob: move any knob + Ⓛ

1 Quick Start

In this quick start guide we will explore the functionality of therapkid.

First press **reset** to start with a basic sound.

The cutoff knob can be used to manually open and close the low pass filter.

Let's assign the cutoff knob to lfo1.

-Move the **cutoff** knob a little so the red digits show its position.

-press the bottom left button (**lfo1 link**). The button will light up indicating that the cutoff knob is now assigned to lfo1. You can now use the lfo depth and rate knobs to change how the filter is modulated.

Note: the effect is more pronounced if the cutoff knob is at minimum and the lfo1 depth at maximum.

Let's add a wind effect by mixing in some noise.

Press the **noise** waveform of voice1. It will light up but no audible change. This is because we need to increase the volume of the noise waveform.

Hold the **noise** waveform button and turn the **mix** knob to set the volume of the noise.

Now let's add a sub oscillator sine wave to voice 2.

Mute voice1 for now by pressing the **waveforms** until they are off.

Press the **sine** waveform of voice2 to turn it on.

Now let's detune the sine:

Hold the **sine** waveform and use the **tune** knob to set it 1 octave below the sawtooth.

1 Playing therapKid

TherapKid can be controlled 2 ways:

-Hardware MIDI notes on/off

Using the included stereo Mini Jack to Din5 Male

-Midi USB notes on/off

Using the included mini USB cable

You can also modulate the parameters with MIDI CC (control change) messages.

Please refer to the MIDI implementation for the full CC list.

2 Voices

TherapKid has 2 voices, each consisting of 4 waveforms.

Voice1 global tune

Use the **tune** knob alone to set the global tune of voice1.

Waveform tuning

You can adjust the pitch of each waveform individually.

To set the pitch of the waveform hold the **waveform** button and turn the **tune** knob.

Voice mixing

Use the **mix** knob alone to mix between voice1 and voice2.

Waveform mixing

To set the volume of a waveform hold the **waveform** button and turn the **mix** knob

Pulse-width

Use the **pulse-width** knobs to set the **square waveform** pulse-widths of voices 1 and 2 respectively.

Glide

Use the **glide** knob to set the time it takes for the voices to change their pitch.

Note: glide is global (applied to both voices)

Duo

Press the **duo** button to toggle duo phonic mode on or off. When duo is active, you can play 2 notes simultaneously. In this case voice1 will play the highest note and voice2, the lowest.

Ring

Therapsid features a ring modulator that can be turned on or off with the **ring** button. When active, the signals of voice1 and voice2 are multiplied often resulting in bell-like tones.

3 Modulation

therapKid can take control of your knobs with its dual LFO.

To assign a knob to an LFO simply move a knob and press the LFO1 link or LFO2 link buttons to assign it to LFO1 or LFO2 respectively. The link button will light up indicating that the association has been made. You can break the connection by pressing the **link** button again.

To clear all knobs associated to an LFO hold the link button for 3 seconds.

Use the **rate** and **depth** knobs to set the intensity and speed of the lfo.

When lit the **loop** button makes the LFO loop or become a one shot modulator when unlit, handy to use as an envelope.

The **retrig** button is used to make the LFO cycle reset when a new key is pressed.

Note: the arp will retrig the LFO too when lit.

4 Filter

TherapKid has 5 filter modes: Low Pass, Band Pass, Notch, High Pass and Off

Use the **filter mode** button to change the filter mode.

Use the **cutoff** knob to set the filter cutoff frequency and the **res** knob to set the filter resonance.

5 Arp

TherapKid has 5 arp modes: Up, Down, Up/Down, and Random and Off

Use the **arp mode** button to toggle through the modes. When the arp is on hold multiple keys to arpeggiate between the notes.

Set the arp range in octaves with the range knob (up to 4 octaves)

Set the arp speed with the arp rate knob

Note: the arp retrieves the LFO if it's set to **retrig**

6 Presets

TherapKid has 50 presets that you can customise to your liking.

To save the changes you have made simply press both **preset up** and **preset down** buttons at once. The LED display will flash to confirm saving.

Preset reset

If you need a fresh start press **reset** to load the first preset

Preset Randomiser

Press and hold **reset** for 2 seconds to randomise the current preset.

MIDI IMPLEMENTATION

LFO1 DEPTH: CC1(MOD WHEEL)
LFO1 RATE: CC3

LFO2 DEPTH: CC2
LFO2 RATE: CC4

FILTER CUTOFF: CC5
FILTER RESONANCE: CC6

ARP RATE: CC8
ARP RANGE: CC9

ATTACK: CC13
SUSTAIN: CC7
RELEASE: CC14
MIX: CC15

VOLUME WAVEFORM1: CC16
VOLUME WAVEFORM2: CC17
VOLUME WAVEFORM3: CC18
VOLUME WAVEFORM4: CC19
VOLUME WAVEFORM5: CC20
VOLUME WAVEFORM6: CC21
VOLUME WAVEFORM7: CC22
VOLUME WAVEFORM8: CC23

TUNE WAVEFORM1: CC25
TUNE WAVEFORM2: CC26
TUNE WAVEFORM3: CC27
TUNE WAVEFORM4: CC28
TUNE WAVEFORM5: CC29
TUNE WAVEFORM6: CC30
TUNE WAVEFORM7: CC31
TUNE WAVEFORM8: CC32

PW1: CC10
PW2: CC24
GLIDE: CC11
TUNE: CC12