



The 2600 User Manual

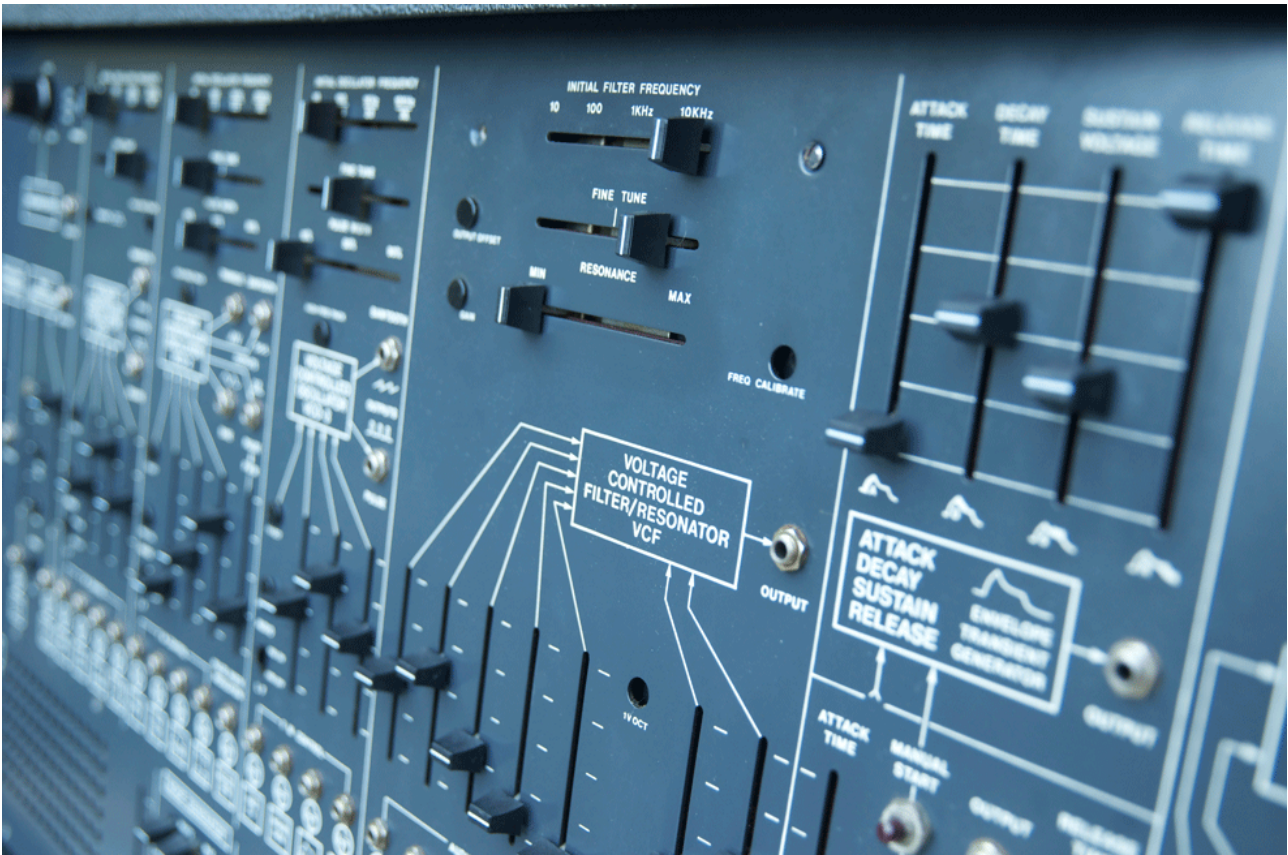
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Requires FULL version of Kontakt 5.2.1 or above . This product will NOT work with the Kontakt Player .

INTRODUCTION



The **2600** is a sample library based on the **ARP 2600P V1.0**.

All 3 oscillators' waveforms have been sampled chromatically from C1 to C7 *.

In addition to the Sine / Triangle / Sawtooth / Square & Pulse waveforms , a range of other settings have been sampled . For the full list , see oscillator waveforms .

The **2600** features :

- 3 Oscillators
- 2 Filters
- 2 Filter Envelopes
- 4 Aux LFOs
- 1 Dedicated LFO for each filter
- 1 Programmable Arpeggiator
- 46 Custom Impulse Responses
- 6 FX : Transient Shaper / Flanger / Distortion / 2 Delays & Convolution Reverb
- 5 GB (compressed) samples (44.1Hz/24bit)

Oscillators

The Coarse & Fine sliders determine the oscillators' pitch .

The Routing slider determines which filter the oscillator is routed to . If 1&2 is selected , filters are serial arranged in series .



Velocity

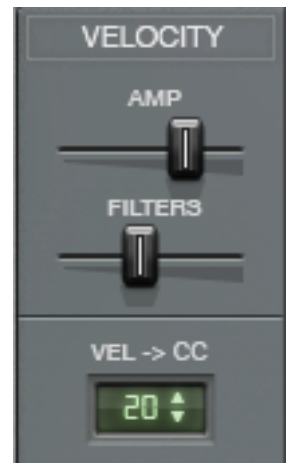
Amp : Determines the amount of velocity modulation applied to the main ADSR .

Filters : Determines the amount of velocity modulation applied to the filter envelope .

Vel->CC : To use this feature , click on the **Browse** tab at the top of **Kontakt** , select **Auto** -> **Midi Automation** .

There are 2 ways of assigning controls in Kontakt .

1. Right click any control on the interface . Select **Learn Midi #CC** automation from the drop down menu . Move a **knob** or **slider** on your **controller hardware** . In the **Vel-CC LCD window** , select the same **Midi CC** number . Then for each control you want to add velocity to , repeat .
2. Lets pick Midi CC 20 as an example . Drag **CC 20 not assigned** from the Midi Automation window on to any control on the interface , e.g. Osc 1 Tune . **CC 20 not assigned** will now change in the Midi Automation window to **CC 20 Tune The 2600** .



In the bottom window (assigned to:) in the Midi Automation window , you can control how much velocity modulation is applied to each parameter . Click on the parameter , e.g. Osc 1 Tune , and change the From % or To% .

Oscillator Waveforms

Each of the 3 oscillators can select the following waveforms :

Sine :	Sine wave from Osc 2
Triangle :	Triangle wave from Osc 2
Sawtooth :	Sawtooth wave from Osc 1 / 2 / 3
Square :	Square Wave from Osc 1 & 3
Fast Square :	Osc 1 Square wave through an Intellijel uVCA / WMD MME
Pulse :	Pulse wave from Osc 2 @ 90%
PWM Slow :	PWM $\approx 0.25\text{Hz}$
PWM Fast :	PWM $\approx 11\text{Hz}$
Bells 1 :	Sine wave & self oscillating filter - Ring modulated
Bells 2 :	Sine wave & self oscillating filter - Ring modulated
Bells 3 :	Sine wave & self oscillating filter - Ring modulated
Chorus 1 :	2VCO mixed waveform w/ slow mild chorus effect
Chorus 2 :	2 VCO mixed waveform w/ mid heavy chorus effect
Filter Env. 1 :	Square wave w/ short filter envelope
Filter Env. 2 :	Square wave w/ slow filter envelope (AMsynths 8109 filter)
FM Pulse 1 :	Osc 2 Pulse wave - frequency modulated
FM Pulse 2 :	Osc 2 Pulse wave - frequency modulated
Harmonics :	Osc 2 Sine wave , modulated by self oscillating filter
Overdrive :	FM'd Square wave
Ring Mod :	Sine wave & self oscillating filter - RM'd
Self Oscillation :	Arp2600 filter in self oscillation
Sine FM :	FM'd Sine wave
Twin Pulse FM :	Two Pulse waves FM'ing each other
Vintage :	Sine wave w/ noise & FM
Osc 1 User 1 :	Empty
Osc 1 User 2 :	Empty
Osc 2 User 1 :	Drums (CO-F#1)
Osc 2 User 2 :	FX (CO-C3)
Osc 3 User 1 :	Unison mixed wave
Osc 3 User 2 :	FM'd mixed wave

Filters

Filter 1 types :

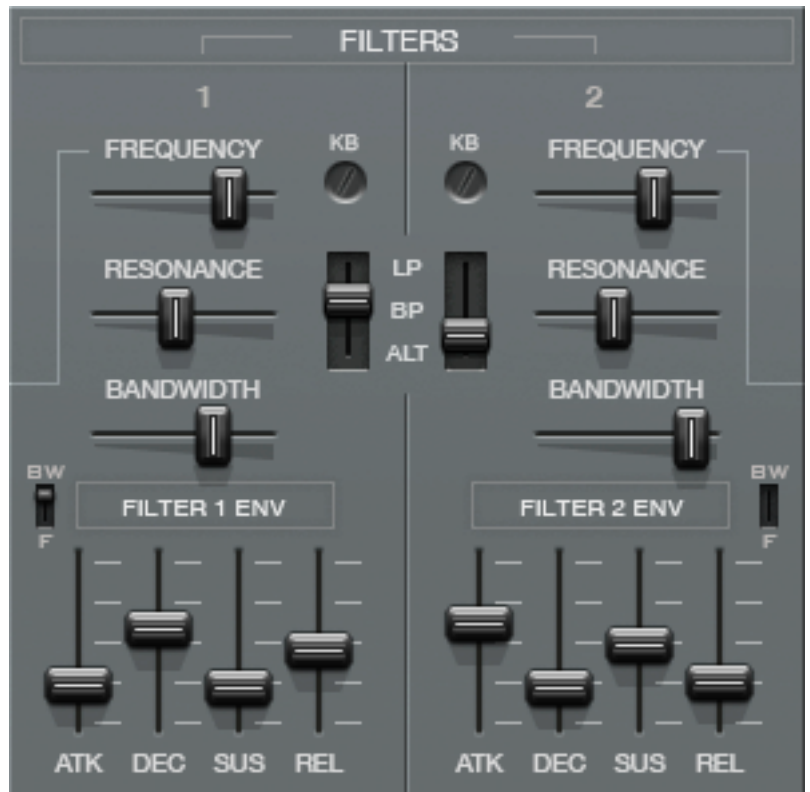
LP : Ladder LP1
BP : SV Par BP/BP
ALT : Formant 1

Filter 2 types :

LP : Ladder LP3
BP : SV Par LP/HP
ALT : Ladder HP2

BW / F switch controls where the Filter Env. is routed . Bandwidth or Frequency . If LP is selected the switch will change to F / R (resonance)

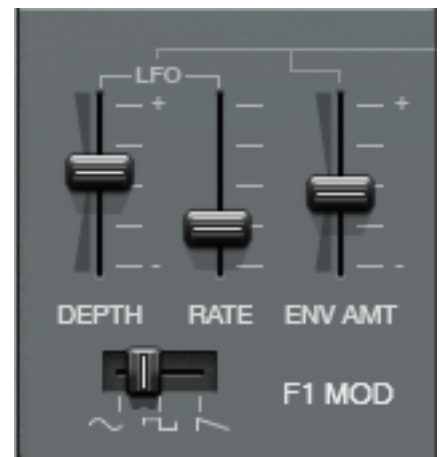
KB : Controls the amount of key tracking applied to the filter .



The filter LFO is set to no retrigger / unsynced mode . If you need a synced or triggered lfo to modulate the cutoff frequency , you can either use the **Aux LFO's** in the **Mod page** , or you can open up Kontakt and change the setting of the LFO internally .

Click on the **Spanner icon** . Click **Group Editor** . Select **Edit All Groups** . Double click the active filter . Click the **Mod tab** .

The 2nd entry is LFO (multi) . Click the icon with the down arrow . That will bring you to the relevant lfo . (De)Select **Retrigger** depending on your requirements .

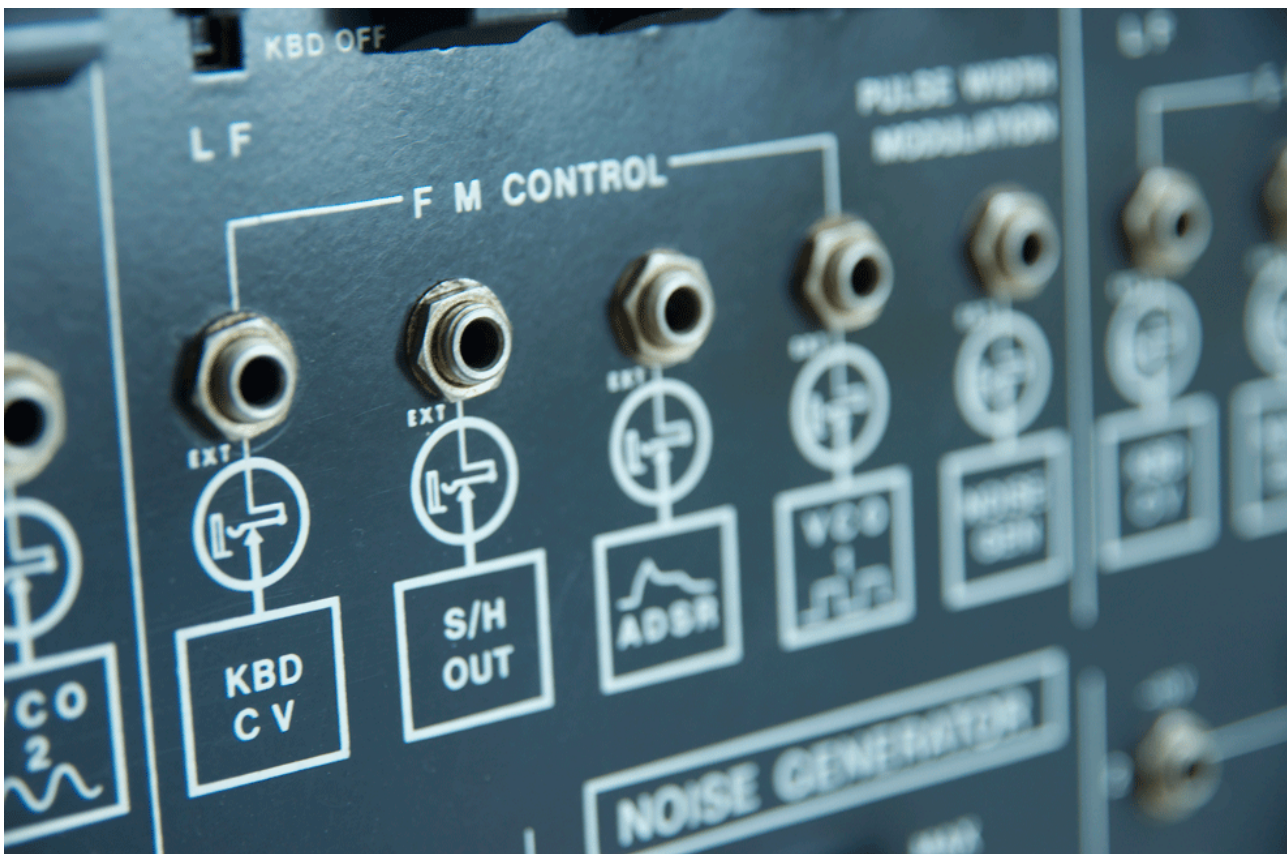


Vibrato

Vibrato : Controls the amount of pitch modulation (sine wave).

Speed : Controls the speed of the pitch modulation .

Glide : Only functions in Mono mode . Controls the amount pitch transition between two notes played legato style .



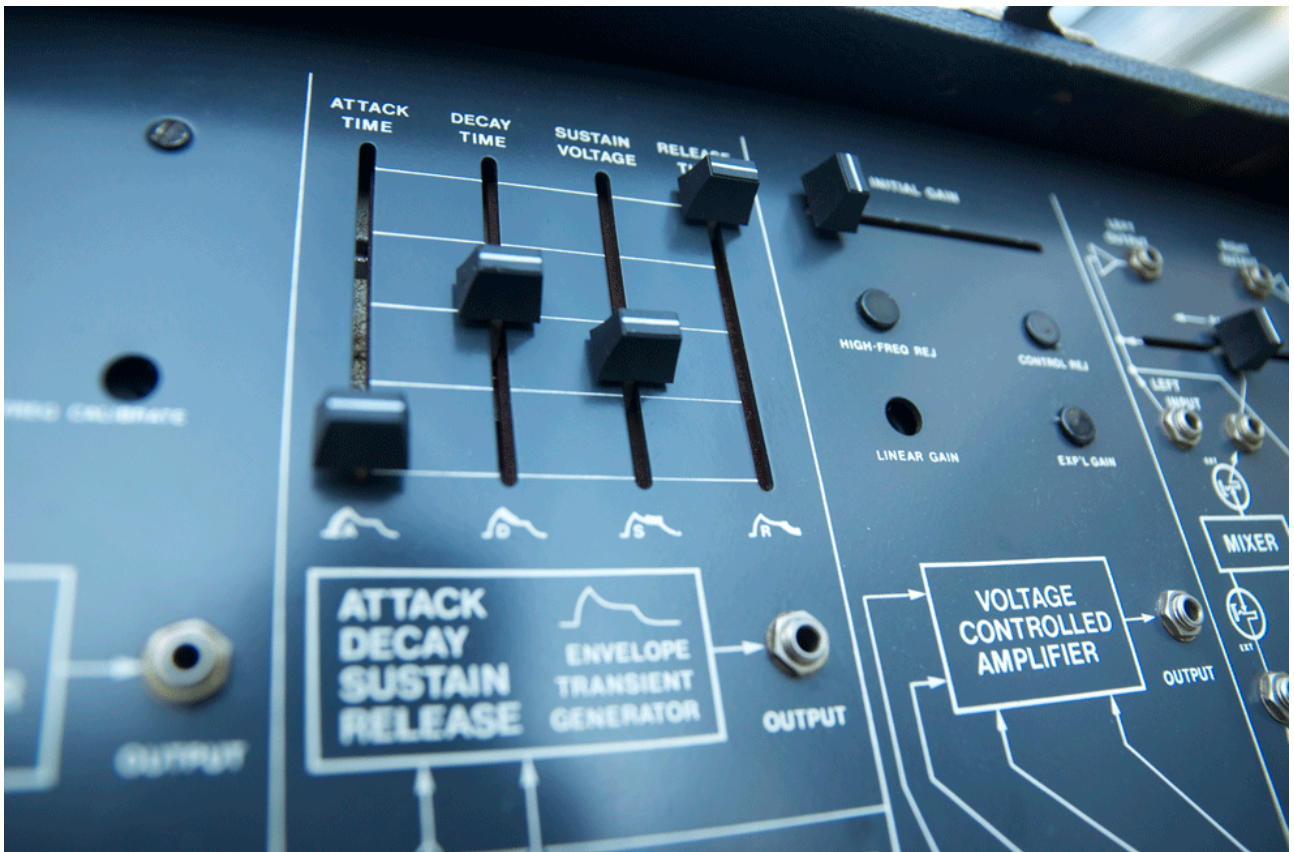
Mod Page

Each LFO has 4 destinations , all bi-polar .

Controls :

Shape
Sync
Phase
Rate
Fade In

All LFOs are set to free running , except LFO2 .



Arpeggiator

Rate : Synced only - 1/1 to 1/128

Steps : 1-16

Octave : -3 to +3

Swing : -50% to +50%

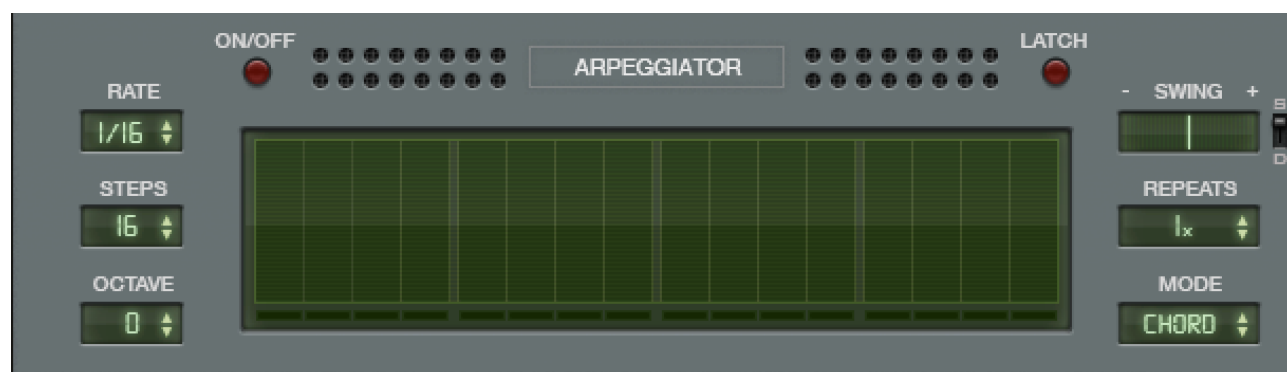
S/D Switch : - Changes between swing & duration

Duration : Changes the length of the note played

Repeats : Sets how many times each note will play

Mode :

As Played / Up / Down / Up & Down / Down & Up / Move In / Move Out / Chord



Note : Chord mode can very *extremely* heavy on CPU especially when more than one oscillator is active . To reduce CPU load , shorten the amp release time , or use only one oscillator .

Key Commands :

Command Click - Clears step

Shift Click - Instances full step

Option-Command Click - Clears all steps

Alt Click - Changes all steps by the same amount

Shift Alt Click - Fine tune amount - All steps

Alt (Mac) - **Option** (Windows)

Command (Mac) - **Ctrl** (Windows)

Effects

Transient Master

Used for altering the transient characteristics of a sound .

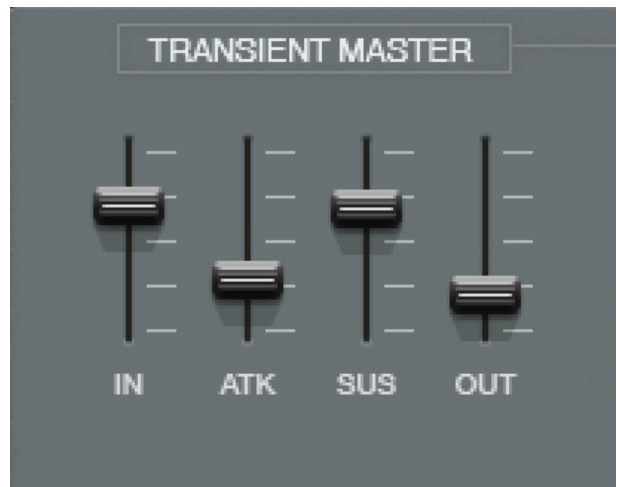
Input : Controls the input gain

Attack : Controls the scaling of the attack section of the sound's amplitude envelope .

Sustain : Controls the scaling of the sustain section of the sounds' amplitude envelope .

Output : Controls the output gain .

The transient master is especially useful for sequenced or arpeggiated sounds .



Distortion

Select either transistor or tube circuits

Drive : Controls the amount of drive !

Damp : Controls the amount of HF damping.



Flanger

Speed : Controls the LFO's modulation speed .

FB: Controls the amount of signal that is fed back into the flanger's input

Depth : Controls the amount of LFO modulation .

Mix : Determines the respective mix of the wet & dry signals .



Effects (continued)

Delay

Time : Controls the delay time .

FB : Controls the amount of signal that is fed back into the delay line .

Width : Controls the amount of panning of the delayed signal .

Mix : Controls the respective levels of the wet & dry signals .

Sync : Syncs delay to host tempo .



Reverb :

Pre : Controls the amount of delay time between the input signal and the wet signal .

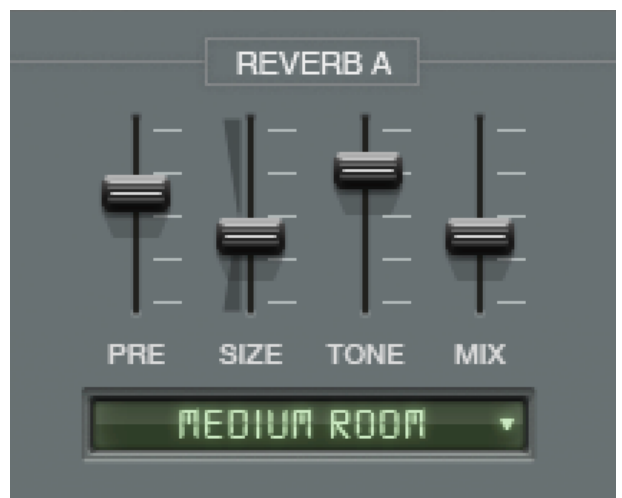
Size : Stretches or compresses the impulse response's length .

Tone : Controls the HF / LF filtering of the IR .

Mix : Controls the respective levels of the wet & dry signals .

Type : Selects the impulse response .

For list of impulse responses , see page 12 .



List of Impulse Responses :

Reverbs :

Ambience Affair
Chamber Decay
Diffusion Echoes
Empty Hall
Hall Of Density
Long Decay
Medium Plate
Plate Reflections
Quiet Time
Random Hall
Resonant Space
Reverent Space
Sacred Space
Vintage Decay

Delays :

Clipped Delays
Deep Circles
Delay Sweeper
Echo Panner
Return Echo
Hall Of Echoes
Panned Echo

Special FX :

Band Bass Ghost
Crystal Caves
Low Whispers
Mystic Chords
Peaceful Place
Pitch Panner 1
Pitch Panner 2
Pitch Panner 3
Unknown Origins

Resonant Chords :

Res Chord C / D / E / F / G / A / B (Maj / Min)



Tips

CPU :

The 2600 can be heavy on **CPU** under certain circumstances . Here are some tips to reduce CPU load :

Arpeggiator chord mode - a heavy cpu user . To lessen CPU consumption , reduce amp envelope release time . Minimize number of oscillators / filters . Use shorter impulse responses .

Large IRs consume lots of CPU power , smaller ones , less .

Modulation :

Almost everything in **The 2600** can be modulated via Midi CC . Right-click on a destination and a “Learn CC Midi Automation” dialog box will appear . Move your desired controller and voila !

Besides destinations , like level , cutoff , resonance , lfo speed etc , you can automate individual arpeggiator steps , arpeggiator rate , and a whole lot more .

Command-click on any parameter resets it to its default state .

Miscellaneous :

If you are using the arpeggiator and transposing the octaves , it is possible you will go out of the range of notes available . If this happens , you will need to extend the range of the top or bottom notes . Open up Kontakt - **Group Editor** , select the relevant group . Click on **Mapping Editor** . Then drag the highest note to the right , or the lowest note to the left .



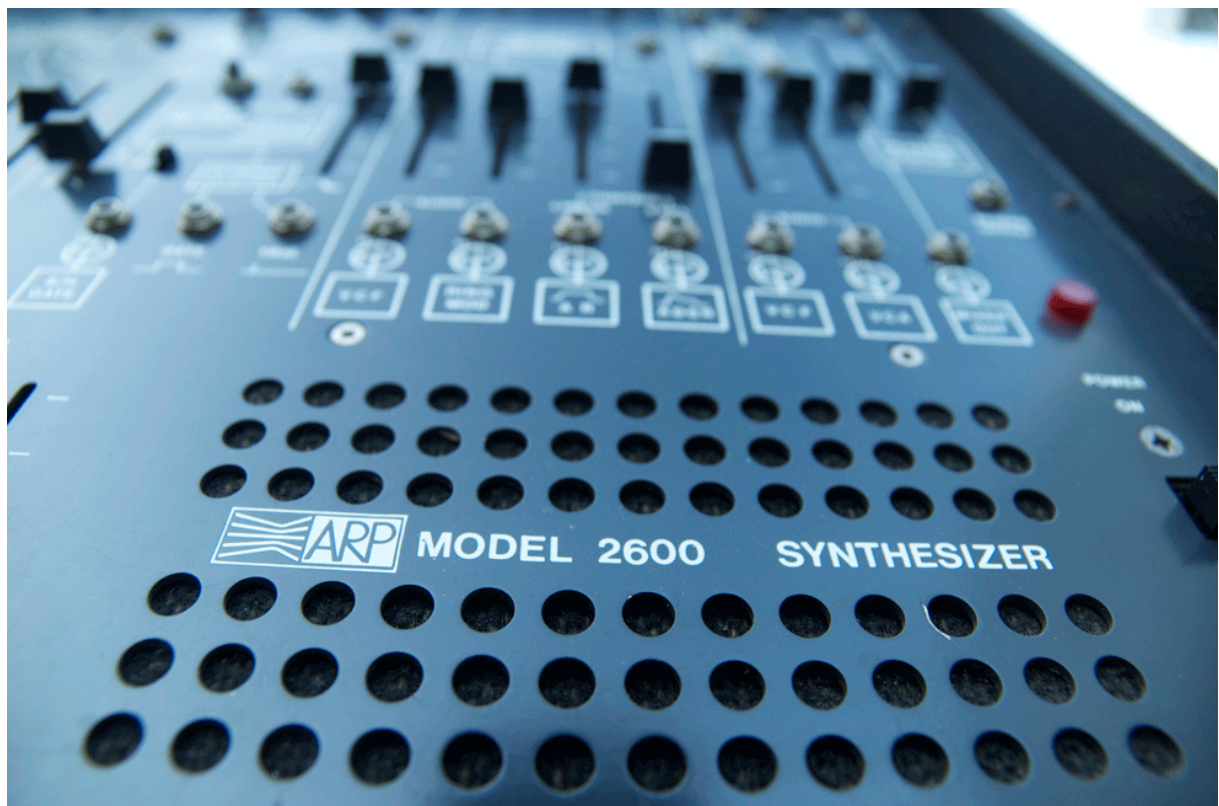
Credits

Graphical User Interface : Anders Hedstrom

Kontakt Scripting : Mario Krušelj

Concept & Sounds : Simon Ball

Special thanks to Patrick Walsh .



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Contact :

Simon Ball

www.soundsdivine.com

info@soundsdivine.com