

APC

punk console



BLEEP



BLOOP



LOUD



APC punk console

USER MANUAL

REVISION 4

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Overview

Thank you for choosing APC, Tek'it Audio virtual re-creation of a popular "Do it yourself" ("DIY") circuit the Atari Punk Console. APC is a square wave synthesizer that creates fun "lo-fi" sound, and comes with users MOD's based on real DIY mods.

Also known as "Stepped Tone Generator", published in 1980 by Forrest M. Mims III, the circuit consists of a frequency oscillator that drives a mono-stable which emits square output pulses. The circuit has become very popular on the DIY electronic music scene and now you can experiment it directly in your DAW.

We hope you enjoy this software, and love creating music with it. Please, take the time to read this manual and learn how to exploit all the features of your new plug-in.

The Tek'it Audio Team

About this Manual

In this Manual, installation procedures, features and operations are described. This PDF document is installed with the program, you find it in the Tek'it Audio folder inside your user Documents folder and you can open it directly from the plug-in interface. This manual can also be downloaded from our website on the product page.

Feature highlights

- Square waves "lo-fi" sound.
- 8 users MOD's available: Pitch up & down, High-pass resonant filters, Low-pass resonant filters, LFO (sync-able on BPM), Key tracking...
- Zero-delay-feedback state variable filters.
- Gate MOD with hold function.
- Preset manager, rename, copy, save, load...
- Full MIDI automation support.
- Easy MIDI learn on all parameters.
- Undo your changes with one click.
- Comes with users manual.
- Easy installer.

Requirements

Below you will find the minimum requirements for running the plug-in.

Windows

- 2 GHz or higher with SSE2.
- 2GB RAM or higher.
- Microsoft® Windows® 10 or 8.
- 1280x800 screen resolution or higher with 32 bit color.
- VST™ 2 or VST™ 3 compatible host.
- Audio interface with ASIO driver support recommended and minimum 44kHz samples rates.
- To use the automation a Host with automation features and for MIDI learn a MIDI interface and an external MIDI control device is required.

macOS

- Intel CPU.
- 2GB RAM or higher.
- macOS 10.8 and latter.
- 1280x800 screen resolution or higher with 32 bit color.
- Audio Unit compatible host.
- CoreAudio compliant audio interface or built-in audio hardware.
- To use the automation a Host with automation features and for MIDI learn a MIDI interface and an external MIDI control device is required.

Upgrading From an Earlier Version

If you are upgrading from an earlier version there are some important things to remember before installing the upgrade:

From version 1.x

- Uninstall the previous version before installing the upgrade.

Running the Installer

1. Locate the file called "APC Installer.exe" on Windows, "APC Installer.pkg" on macOS and double-click it.
2. Follow the on-screen instructions. You will be asked to choose the desired plug-in formats and an install location.
3. Run your host software and load APC. Consult your host documentation for information on how to do this.



Windows: Our uninstaller keep your system clean, all the files are deleted and there are no entry left in your Windows registry.

Trial Version

The trial version gives you full functionality, but the sound stop after 20 minutes oi use, a nag-screen will pop at the start and at the time limit.

To avoid this restrictions, you will need to purchase the full version. You can buy a license at <https://tekit-audio.com/store/>.

Product Registration

If you have purchased your product from a third party seller, you can register your product online at <https://tekit-audio.com/product-registration/>.

Registering your product give you access to the update notifications, faster support, exclusive offers and a free plug-in as welcome gift.

Usage



Control Types

While using APC, you will find that many parameters have similar controls. Hovering your mouse over a control will bring up a tooltip with its name or description.

Knob



To Turn a knob, click it and when drag upwards to move the knob to the right, drag downwards to move the knob to the left. For high precision control use Ctrl+Mouse. Double-click on it, reset it to the initial value of the preset.



Popup Menu

Appears on a left click or right click on a text or an icon to select a value.



Switch

A two position switch, click on it to change the position.

Preset Manager

The plug-in comes with a default bank of 128 presets.



Preset Change

Change the current preset, left to previous and right to next.



Undo All Changes

Undo all your changes to their initial preset value. If you change the preset before it does not work, because your changes are saved automatically when you switch to another preset.



Notes

Open a popup where you can write the author name of the preset and notes.



Manage Preset And Bank

Open the preset manager popup menu.



Copy Preset

Copy the current preset to another preset or a range of presets.

Load Preset

Load a preset in on the current preset.

Save Preset

Save the current preset in a directory of your choice.

Load Bank

Load a preset bank in place of the current one.

Save Bank

Save the bank of presets in a file in the directory of your choice.



Preset Selector

Display a popup menu with all the presets in the current bank. Click on one to select it as the current preset.

Current Preset Name

Display the name of the current preset. Click on it to rename the preset.

Main Parameters



BLEEP

Control the frequency of the waveform.

BLOOP

Control the length of the waveform.

LOUD

Control the output level of the plug-in.



HOLD

Switch the gate to hold. The sound will play indefinitely until you switch it back off.



GATE

Will play a sound when pressed.

MOD's

APC base features can be extended by the use of "MOD". There are two types of them, "Circuit Mods" which concern the audio part such has filters and "Case Mods" which concern the user interface part. APC is shipped by default with four Circuit Mods replica of Mod made on the real hardware.



To activate a MOD click on the Preference Menu icon to open the MOD selection panel. Then select the MOD you want. You can combine some of them.

High-pass & Low-pass Resonant Filter

CUT: control the cut-off frequency. For high-pass filter, this means that frequencies lower than the cut-off point are attenuated. For low-pass filters, this means that frequencies above the cut-off point are attenuated.

RESO: Controls the resonance of the filter. The frequencies around the cut-off frequency are raised. If you turn the knob at full right, the filter can enter in self resonance.



Tone Push Button



Change the tone of the frequency oscillator by + / - 1 octave.



LFO

Change the rate (speed) of the LFO. The LFO modulate the BLOOP parameter. You can Sync the LFO to tempo by right-clicking on the knob and selecting one of the beat division available.

LFO to Filter

The LFO modulate the filter cut-off instead of the BLOOP parameter.

Bleep Keytrack

Play notes on your keyboard or your sequencer to change the Bleep value.

MIDI

APC punk console have integrated MIDI learn and full automation on all parameters.

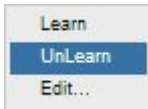
Integrated MIDI learn

All parameters can be controlled by an external MIDI controller easily, simply right click on the parameters you want to control and the Learn popup menu appear.



Learn

Click on Learn, move a control on your MIDI device and it will automatically assigned.



UnLearn

Click on UnLearn will clear the controller.

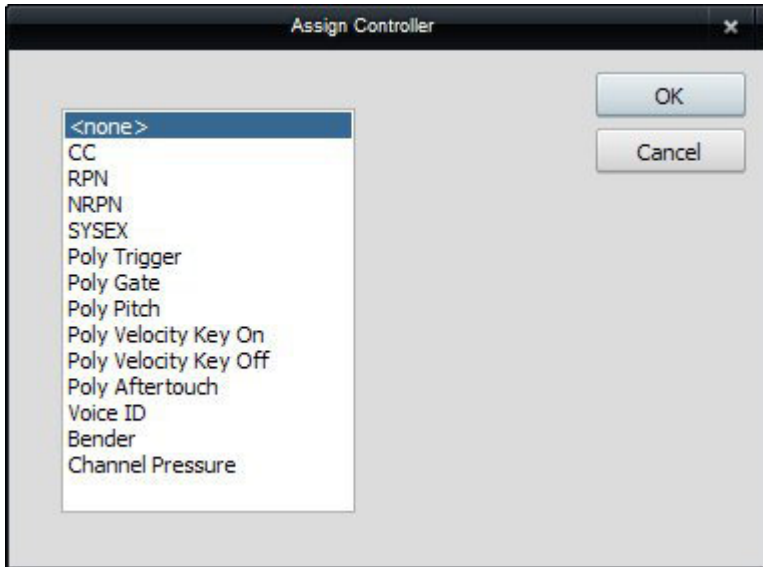


Some hosts (like FL Studio) filters MIDI CC messages coming from MIDI controller, integrated MIDI learn can't work properly in such hosts.

Edit...

Click on Edit will open the Assign Controller dialogue.

You can change manually the MIDI controllers using 7bit MIDI Continuous Controller or High resolution 14bit MIDI NRPN and RPN.



Automation

Each controls can be automated using your host automation features. Consult your host documentation for information on how to do this.

Overview of default MIDI CC Assignment

MIDI CC	Target
80	ENV - Gate
64	ENV - Hold
102	MD HPF - Active
103	MD HPF - Cutoff
104	MD HPF - Reso
105	MD Tone - Active
106	MD Tone - Down
107	MD Tone - Up
75	Punk - Bleep
76	Punk - Bloop
7	Punk - Loud
108	MD LFO - Active
109	MD LFO - Rate
110	MD LPF - Active
111	MD LPF - Cutoff
112	MD LPF - Reso

Updates and Support



Updates will be made available online on your account at <https://tekitaudio.com/myta/>

When a new update is released you will receive an email to notify you of its availability.



Additionally you can follow us on Twitter for instant updates and news at <https://twitter.com/TekitAudio>



For any help and support consult our online support at <https://tekitaudio.com/support/>



For ideas, complaints, sound demo, presets and anything you feel is worth sharing, please use our contact form at <https://tekkit-audio.com/contact-us/>

If you prefer, you can contact our team directly by email at contact@tekitaudio.com

Changelog

2020/08/03 - 1.6

Adds 64 bit VST2 support for Windows.

Adds 64 bit VST3 support for Windows.

Adds 64 bit Audio Unit support for macOS.

Adds .vstpreset and .aupreset format support.

Adds .xmlpreset and .xmlbank to exchange presets between plug-in formats.

New Windows setup program to support the new plug-in formats.

Adds package installer for macOS.

Drop support for Windows XP, Vista and 7.

Revised "End User License Agreement".

Plug-in information screen updated.

User manual revision 4.

2014/12/20 - 1.5

Faster initialization.

Unneeded plug-in parameters removed.

UI info screen updated.

SETUP small improvements.

2013/04/19 - 1.4

Adds LFO to Filter user MOD.

Adds 4 new presets.

Faster Undo initialization.

SSE2 instruction sets requirement.

Reduces plug-in load time.

Filters, improves CPU use.

UI Updates support URL.

SETUP Adds default bank fxb.

SETUP Adds uninstall icon.

SETUP Windows 8 compatibility.

SETUP other small improvements.

User Manual updated.

DEMO the plug-in now work without limitations for 10 minutes.

DEMO Adds the new nag-screen.

2012/08/23 - 1.3

Adds key tracking to bleep (MOD).

HP and LP zero-delay-feedback filters design.

Adds BPM sync right click menu to LFO knob.

UI improved general design.

UI updated social screen.

DEMO URLs updated.

2012/01/18 - 1.2

Adds preset manager and selector.

Adds one click Undo Changes.

Adds preset author note popup.

Adds Help, Social and Information screen.

Optimization on various parts.

GUI added and corrected some Hint texts.

User manual Updated.

2011/06/28 - 1.1

Adds BitGlitch Case Mod.

Adds Low-pass filter Mod.

Adds "Bloop" LFO Mod.

Adds Atomic Filter Case Mod.

Optimization on various parts.

Reworked some elements on the UI.

UI new Mods preference menu.

UI corrected some Hint texts.

Adds new presets.

DEMO Updated nag-screen.

DEMO replaced noise system by audio breaks system.

Setup updated and new languages added.

Updates the user manual.

2011/03/04 - 1.0

First public release.

Credits

Development & Design

Michaël Dubois

Product Management

Michaël Dubois

Graphic Design

Michaël Dubois

Sound Design

Michaël Dubois

Software Test

Michaël Dubois

Documentation

Michaël Dubois

Demo Materials

Michaël Dubois

Special Thanks to

Forrest M. Mims III, Casey Morris.

Everyone else who has contributed to the "APC" development in any way.

Create, play !



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