

Behringer Pro-1 Ctrlr panel documentation and instructions

V2.4-2023-07-21

4 7 8 10000		
	IN ISC A FREG	$\begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 \text{ Solution A} \end{bmatrix} \end{bmatrix} \end{bmatrix} \end{bmatrix} \begin{bmatrix} 0 \text{ Solution A} \\ 0 So$
AMOUNT ROUTE	<u> </u>	(~) [중 (36, 46, 46) ' 46' (35 (10 5 성) - 10 5' (3
	DISC A PW	- SHAPE - PULSE WITH OCTAVE - SHAPE - PULSE WITH OCC A OSC B NOISE/EXT CUTOFF RESONANCE ENVELOPE KEYBOLRD MIDI IN
大空 青い		
	NA- NGC ID FREQ	[사실 ^// 비금 비운,입티뷰]] 관업비 [].사업관업운/김운/김사업
AMOUNT ROUTE OSC 8 V	-	
	osc a PW	
	A14	
a as present		The support in the second seco

PROGRAM: CATEGORY:	FILTER KEVBOARD AMOUNT: FILE: FAT LEAD.SVX
FAT LEAD LEAD	BV: ANTILLES MUSIC ON: 2020-03-06
Behringer PRO-1 Envelopes and Patches Library and Info Patch sheet	
Sunny Synths	кори парти подон пари парти подон пантон истибон истибон при годи
sunny synthe@gmsil.com	О—О О О О—О О О О О О О О О



Introduction

Hi! Thanks for having purchased this Ctrlr Behringer Pro-1 panel!

The panel is only a patch loader/saver on computer as the Behringer Pro-1 does not support the load/save of programs or the manipulation of program parameters by Midi NRPN/CC messages except for Global settings that can be transferred to the Pro-1. It can thus also be called a "patch mapper".

It will support you in saving and retrieving Pro-1 patches on your PC but gives you also the possibility to exchange them with other users as they are stored as sysex files.

The look and feel has been respected but of course it would be stupid to not benefit of the computer possibilities. Therefore, you also get a display of the current parameters value, a graphic display of the envelopes, the ability to store and indicate the input/output patches, to draw patch cables on the panel, etc.

Despite careful testing it is possible that some bugs remain. Please contact <u>sunny.synths@gmail.com</u> if you find one so they can be corrected as soon as possible.

In the same spirit, contact <u>sunny.synths@gmail.com</u> as well if you would like some enhancement on the panel.

By that, please have a look on this manual to have an idea of the way of using it and its features. Enjoy making music with your Pro-1 and have fun!

Sunny Synths

About this v2.4 version

This 2.4 version provides the following changes corrections to the panel:

- Removed endless loop when double I/O were used and that was causing high CPU load
- File browser Set Root adapted

The 2.x version provided the following changes to the panel:

- Patch cables drawing
- Ability to switch between full cables or cable plugs
- Support for double inputs / double outputs
- Added the setting of the transparency of the patch cables
- Added a Welcome message display switch
- Added a Load OK Confirm switch
- Added ability to play AAC, MP3 and AIF files on MacOs
- Remembers the last file saved path and name so it is used by default at next Save
- The previous Author is now kept when loading a new Init program
- Patch cables are now restored at panel opening when the user selects No load at panel load
- All labels (Name, LCDs, Synth1/2, FX...) are now restored when user selects No load at panel load
- Consequence of this correction/adaptation: you can now change presets in DAW with correct Name, Description, LCDs, cables... which was not working previously ⁽²⁾
- More visible switches position
- Display info: Diff w/ Init switch (differences with an Init program)
- No program load at panel load button
- Internal adaptation to prevent multiple popups when opening the panel on several tracks in DAW
- Sequencer Track button is now 'active'
- Correction Osc B mix level display on patch sheet

Information for the users of a previous version than 2.3

As some images have been added in v2.3, you need to delete the existing temporary "Behringer Pro-1" folder so that it will be replaced by the new one.

You may have to redo your Midi settings so take note of them before deleting the folder (or copy the Behringer Pro-1.settings file to a safe place and put it back when the temp directory is recreated).

On Windows, the temporary folder **Behringer Pro-1** is located in the normally hidden directory **C:\Users\your_username\AppData\Roaming**. You can display the AppData folder by selecting to display the hidden elements in the Windows Explorer ribbon under Display.

On MacOS, the temporary folder **Behringer Pro-1** is located in your personal Library/Preferences folder. This is also a hidden folder that you can see/reach by using the Finder and clicking on Go while pressing the Option (Alt) key.



Due to some internal change related to the changes mentioned above, you will most probably get an error about ReadStateData the first time you start this v2.3. Just close the panel and restart it. The new ReadStateData will be fine.

Table of Contents

Introduction 2
About this v2.4 version
Information for the users of a previous version than 2.3
Installation and features
Installation of the Ctrlr panel6
Features
Communication with your Pro-1 synth 8
Preliminary info
Some examples of connection setup
Testing the Midi connection10
Way of working 11
Using the buttons and modifying parameters11
Quick reset to default value11
Opening and closing the panel12
Top panel area13
Loading a Behringer Pro-1 program14
Saving a Behringer Pro-1 program15
Program Init16
Program Rename17
Behringer Pro-1 tab
Envelopes and Patches tab20
Library and Info tab24
Patch sheet tab
Installing and using the Pro-1 panel as plugin 27
Installation27
Tests and identified limitations28
Cubase
Cakewalk by Bandlab33
Reaper
Ableton
Studio One41
Logic Pro X

Using a controller to move the buttons					
The main Ctrlr menus	47				
Appendix	48				
Version history	48				
Pro-1 information	48				
Specific MacOS setup issues	48				
Sysex file documentation	49				

sunny.synths@gmail.com

Installation and features

Installation of the Ctrlr panel

The panel is provided as a compressed .zip file containing:

- the Behringer Pro-1 panel as an .exe file on Windows PC
- the Behringer Pro-1 panel as an .app file on Mac OS (zip folder to be uncompressed)
- the Behringer Pro-1 panel as VST 32 bits and 64 bits for Windows PC
- the Behringer Pro-1 panel as VST and AU plugins for Mac OS
- this manual as PDF
- a folder containing programs from the Pro One user manual
- two Advanced mode templates to pilot the panel from a Novation SL MkII keyboard/controller

For the PC standalone version, decompress the zip file anywhere on your PC then copy the **Behringer Pro-1.exe** file in some directory and launch it. The file may be scanned by your antivirus program (Avast on my computer) and should return no issue. If any, they are false and probably due to the fact that the program is not officially referenced.

For the Mac OS standalone version, decompress the zip file anywhere on your Mac then decompress the Behringer Pro-1.app.zip. You may have to open the **Behringer Pro-1.app** file using Ctrl+click as it may not be recognized by the OS.

On Mac you may also do either *chmod* +*x Contents/MacOS/** on the package contents or need to go to System Preferences then Security and Privacy and to click on the Open anyway button to have the package/plugin saved as an exception in the security settings.

The program will directly display the Ctrlr window with the Pro-1 panel displaying its main tab.

Behringer PRO-1 File Edit View MIDI Programs Tools He	-		- 🗆 X
PROGRAM: CATEGORY: INIT PROGRAM [NOT DEFINED]		FILE: -	Load Save Init Rename
Behringer PRO-1 Envelopes and Patches Library and Info Patch sheet			
Sunny Synths	51 ф/11 51 баўте 11 51 ф/017 51 балё болт 52 ф/11 О—О О О О О-		PXIN PXÖUT OOO
AMOUNT AMOUNT FILENV ADG A PRED BIG A PRED FILENV AMOUNT A	LATOR A - SHAPE - PLUSE WIDTH		
		GLIDE 3 , , , , , , , , , , , , , , , , , , ,	SUBTAIN RELEASE
A B B B B B B B B B B B B B B B B B B B	OFF OFF		

It is possible that the top row buttons are not responding after the initial installation (first try the Init button for ex.). Simply close the program and restart it. The issue should be solved.

For the installation of the plugins, please refer to Installing and using the Pro-1 panel as plugin on page 27 further in this manual.

Features

You will find the following features in the Behringer Pro-1 panel:

- Behringer Pro-1 interface with same look as actual synthesizer
- Top row of support "screens" with old look
- Visual feedback by using "LED" ring buttons and indication of the value (on change or on click)
- Envelopes graphs handled by mouse or classical ADSR rotary encoders
- Load / Save programs from individual .syx files
- Easy program renaming
- Display and export of program parameters as text file
- Ability to describe 9 input/output colored patch cables with different sources/destinations
- Patch cables drawing
- Ability to display full cables or cable plugs
- Programs have a name, author, save date and description. They can be associated to a category
- Browser of the files on the disk with reading of associated wav file if any
- Patch sheet tab with patch sheet for Pro-1 and other gear (external synths/sequencers)
- Global settings management with automatic/manual send to the Pro-1 synth
- Automatic reading of wav/aif*/aac*/mp3* files associated to a patch (*MacOS only)
- Manual/Automatic reading of any wav/aif*/aac*/mp3* file (*MacOS only)
- All buttons associated to a Midi CC controller number so you can adjust them from a hardware controller (still no impact on the synth of course and unfortunately).

Communication with your Pro-1 synth

If you don't want to manage global settings or if your Pro-1 is not connected by USB or Midi to your PC then you can skip this section.

Preliminary info

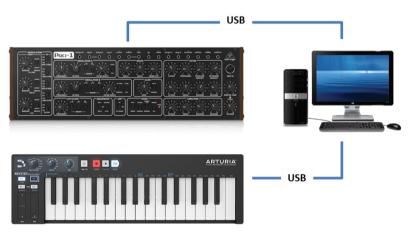
As mentioned in the introduction of this manual, the Behringer Pro-1 synthesizer does not support the load/save of programs or the manipulation of program parameters by Midi NRPN/CC messages.

It does however support the modification of global settings via sysex commands. Unfortunately, it is also not possible to know/read the state of the global settings; only to send a message to set their value.

Some examples of connection setup

You can connect your Pro-1, a master keyboard / controller and your computer in different ways. The Midi settings in the panel will be different according to the setup you choose.

Configuration 1: full USB



- Connect the Pro-1 to the computer by USB
- Connect your master keyboard / controller to the computer by USB (connecting the master keyboard by USB to the computer gives you the possibility to use it for the Pro-1 but also for VST plugins or other soft synths)
- Power the Pro-1 On
- Start the Pro-1 panel
- In the Midi menu, select Input Device your_master_keyboard
- In the Midi menu, select Input Channel 1 (set this to the Midi channel of your Pro-1). This is done to receive notes from the master keyboard.
- In the Midi menu, select Output Device Pro-1
- In the Midi menu, select Output Channel 1 (set this to the Midi channel of your Pro-1). This is done to send Global Settings and Notes to the Pro-1
- In the Midi menu, select Midi Thru Input Device -> Output Device. This is done to send the received notes to the synth

Configuration 2: USB and Midi DINs

sunny.synths@gmail.com



- Connect the Pro-1 to the computer by USB
- Connect your master keyboard by Midi DIN to the Pro-1. Notes will come from this connection
- Power the Pro-1 On. The master keyboard will be dedicated to the Pro-1.
- Start the Pro-1 panel
- In the **Midi** menu, select **Output Device** *Pro-1*
- In the Midi menu, select Output Channel 1 (set this to the Midi channel of your Pro-1). This is done to only send Global Settings to the Pro-1

Configuration 3: USB and USB-Midi



- Connect the Pro-1 to the computer by USB Midi cable going OUT of the PC to the Midi IN of the Pro-1.
- Connect your master keyboard by USB (connecting the master keyboard by USB to the computer gives you the possibility to use it for the Pro-1 but also for VST plugins or other soft synths)
- Power the Pro-1 On
- Start the Pro-1 panel
- In the Midi menu, select Input Device your_master_keyboard
- In the Midi menu, select Input Channel 1 (set this to the Midi channel of your Pro-1). This is done to receive notes from the master keyboard.
- In the Midi menu, select Output Device Pro-1
- In the Midi menu, select Output Channel 1 (set this to the Midi channel of your Pro-1). This is done to send Global Settings and Notes to the Pro-1
- In the Midi menu, select Midi Thru Input Device -> Output Device. This is done to send the received notes to the synth

v2.4

Testing the Midi connection

We can now test the Midi connection:

- Press some keys on your keyboard and confirm you get some sound from the Pro-1. If not, check your audio, check if Midi Thru is activated (not for configuration 2)
- On the panel, in the Envelopes and Patches tab, press the **Auto GS** button so this is activating the automatic send of all changes done on global settings to your synth
- In the Tools menu, select Midi monitor and in the new monitor popup check On Monitor input and Monitor Output in the View menu

(DI IN TRAM) TRANSPOSE						AND F IC INC			(3-12-25	Load	Save	Init	Rename	Auto GS
	0	РАТСН	POINTS	OVE	RVIEW	I		6		РАТСН	POINTS	SETU	P	
Patch 1	-	trlr/MIDI Monito				-		×	Patch:		Proc	eed R	eset All	
Patch 2 Patch 3 Patch 4 Patch 5	2 3 4	18:06:26:0003 18:06:26:0003 18:06:26:0003 18:06:26:0003	59]: RAW:[59]: RAW:[59]: RAW:[EO 00 2 EO 00 2 EO 00 2	20 32 00 20 32 00 20 32 00	7f 0a 02 7f 0a 03 7f 0a 06	00 01 f 00 0c f 00 0c f	7] 7] 7]	From: Not c	onnected	To:	Not conne	ected	•
Patch 6 Patch 7 Patch 8 Patch 9	5	18:06:26:0003	59]: RAW:[EO OO 2	20 32 00	7f 0a 0b	00 01 f	7]	Synth1: Synth2:		Syni	th1 9	Synth2	
	-							-		GLOBA	L SETT	INGS		\dashv
									Author		Key pric	ority:	High	•
Prograr Autho									Send All		Mod cu		Medium	•
Descripti "Bright and									Restore	Multi	MIDI I Transp			
									Defaults	Trigger	Pitch wh	eel rang		•
	<u>()</u>										1.	c Jermeone		

- Play a note on your keyboard and move the pitch wheel to its max. The range should be the default one at 12 semitones
- In the panel, select the second tab and change the Pitch bend range to 2 semitones (or another low amount) in the Global settings section
- Verify that the last message in the Midi Monitor output section is like f0 00 20 32 00 01 08 11 02
 00 f7
 - the number in blue will depend on your choice of pitch wheel range
- Play the keyboard and move the pitch wheel to its max. The range should now be much lower.
- Change the Pitch wheel range to 12 semitones in the Global settings section
- Verify that the last message in the Midi Monitor output section is like f0 00 20 32 00 01 08 11 0c
 00 f7
- Play the keyboard and move the pitch wheel to its max. The range should now be back to its default value

You can also press on the Send All button to send all Global settings at once to the synth:

Ctrlr/MIDI Monitor

File	e View	Filter									
	[12:30:15:00	0101]: RAW:[f	0 00	20	32	00	01	80	11	0c	00 f7]
	[12:30:15:00	0101]: RAW:[f	0 00	20	32	00	01	80	12	00	£7]
	[12:30:15:00	0101]: RAW:[f	0 00	20	32	00	01	80	le	01	£7]

Way of working

As you will discover by yourself, the usage of the panel is pretty straightforward but there are anyway different specific things you should know...

Using the buttons and modifying parameters



You modify parameters using rotary encoders by clicking on the button then moving the mouse cursor vertically up or down.

You can also modify any rotary encoder based parameter by hovering the mouse on the button then using the mouse scroll wheel.



Toggle buttons are modified by simply clicking on them. There is no left/right; up/down effect; just a simple toggle between the two positions

Triple switch buttons are moving between their different positions by each click

Momentary push buttons are activated by simply clicking on them (what a surprise...). They will momentary flash.





Permanent toggle buttons are activated by simply clicking on them (what a surprise...). They will stay highlighted until the next click.



Auto GS

Parameters presented as pulldowns are modified by opening the pulldown and selecting one of the pull-down items.

Quick reset to default value

Most of the rotary encoders have default values set and you can quickly revert to this preset default value by double-clicking on the button. Try with the Master Tune encoder.

Opening and closing the panel

When closing the panel (either by using **File – Quit** or by clicking on the upper right red cross) the file of the last program loaded or saved is stored.

When opening the panel, it is checked if the last file used still exists (could have been renamed or moved or deleted).

When no file is found, the Init program is loaded (in the same way as when loading the panel for the first time (unless the button **No program load at panel load** in the Envelopes and Patches tab is ON).



When the last saved file is found, the panel is restored so you can continue your work where you saved it (unless the button **No program load at panel load** in the Envelopes and Patches tab is ON).



The same is done with the root folder of the File browser (see Library and Info tab on p20).

Top panel area



In the top panel area you find 4 feedback "screens", 5 buttons and 4 tabs:

- The first screen displays the name of the current program
- The second screen displays the category of the current program
- The third one indicates the parameter currently modified and its value
- The fourth one displays the latest sysex file loaded, its author and the save date
- The **Load** button allows loading a sysex file from disk
- The **Save** button saves the current program to a sysex file on disk
- The Init button reset all parameters to a Basic program
- The **Rename** button allows renaming the current program
- The Behringer Pro-1 tab displays the synth
- The Envelopes and Patches tab displays the envelopes as graphs, allows the registration of 9 different input/output patches, the identification of two external synths, an effect chain and allows modifying the Category, the Author and the Description of the current program. This is also the place where you can handle the Global Settings
- The Library and Info tab provides the file browser that allows the selection of sysex files or the ability to listen to wav files, the display and the export of the parameters of the current program as text file and gives About info of the panel. It is also here that you will find the manual panel zoom that is memorized.
- The Patch sheet tab displays automatically the Behringer Pro-1 patch sheet with all parameter values (as in the manual) but with the addition of author, date, external synths and effect chain names and 12 external input/output connections

Loading a Behringer Pro-1 program

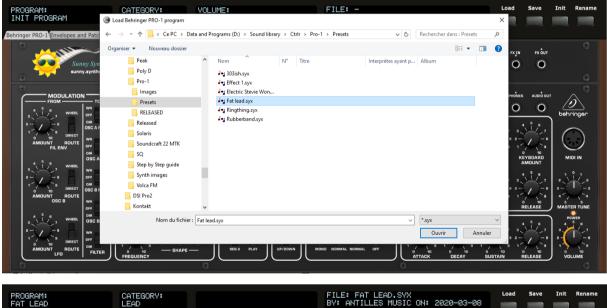
The panel loads and saves the program parameters as a 600 bytes sysex file (.syx) from/to your computer.

Clicking the **Load** button opens a classical Open file dialog where you can select the file to load. An internal check is done to verify that the file is compatible with the Behringer Pro-1 panel. The parameters are loaded, the top screen is showing the name of the file, the author and the saved date and a confirmation dialog is shown.

If the **Auto GS** (Automatic send of Global Settings) button is lit, the panel will send the Global settings to your Pro-1 synth at load. Nothing will happen if your synth is not connected by Midi/USB or if your synth is on another Midi channel than the one set in the MIDI menu of the panel.



Verify the Auto GS button before loading a program. If lit, the panel will send the Global settings to your Pro-1 synth at load.



PROGRAM: FAT LEAD	CATEGORY: LEAD			FILE BY:	: FAT LEAD.SY ANTILLES MUSI	X C ON: 202	0-03-08	Load	Save	Init Renam
Behringer PRO-1 Envelopes and Patches		SI ÇV IN SI GATE IN O-O	S1 CV OUT S1 GATE OUT	52 CŲ IN 52 GATE IN O-O	52 CV OUT 52 GATE OUT	SEQ TRK1 OU	T SEQ TRK2 OUT	PX IN O	FX ÖUT	
FROM TO -		OBÇCV GATE/CLK	LFOCV LFOOUT Load program	หระยิ่cv sate m 'Fat lead' has ber		NUTOFF CV RESO CV		NV PHONES		behringer
AMOUNT ROUTE FILENV DISC A FRED OSC A FRED OSC A FRED OSC A FRED OSC A FRED OSC A FRED	FREQUENCY OCTAVE	- SHAPE -	Global settings	have been sent to		4 1 6 7 3 - 8 2			10 YBOARD MOUNT	
AMOUNT AMOUNT OSC B	FREQUENCY OCTAVE		10 FREG 10 FREG NORMAL JLSE WIDTH		AUTO	4 5 6 3 7 3 2		5 6 7 3 4 7 8 2 1 10 TAIN R	5 6 7 9 10 ELEASE	a l l l l a a l l a a l a l a master ture
AMOUNT LFO		C SEQUEN	ICORD UP OFF	POLY RETRIG	GATE	4 5 6 3	AMPLIFIER		5 6 7 8 9 10 elease	POWER 4 5 6 2

If you want, you can prevent the display of the Load confirmation message (see Envelopes and Patches tab on p2021).

sunny.synths@gmail.com

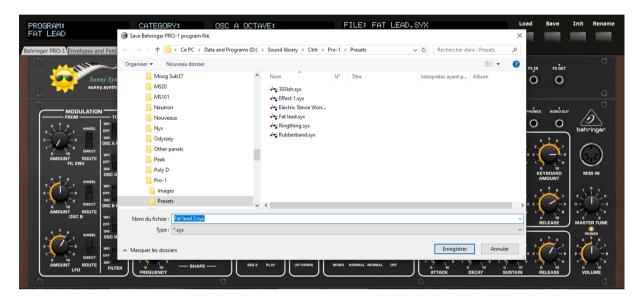
Saving a Behringer Pro-1 program

The panel loads and saves the program parameters as a 600 bytes sysex file (.syx) from/to your computer.

Clicking the **Save** button opens a classical Save file dialog where you can enter the name of the file to save. The last saved filename and path is proposed by default. You will get a confirmation popup if you select an existing file and want to overwrite it.

Once the parameters are saved, the top of the screen displays the name of the file, the author (as set in the Envelopes and Patches tab) and the saved date (thus, the current date) in ISO format *yyyy-mm- dd*. A confirmation dialog is also shown.

The panel stays on the current tab after a Save is done.





Program Init

Clicking the **Init** button loads the parameters for a Basic program that has the following characteristics:

- Global settings at their default value
 - Note priority: LOW
 - Pitch bend range: 12 semitones
 - Midi Clock Output: ON
- All parameters at 0 or OFF





Program Rename

Clicking the **Rename** button opens a popup window where you can modify the name of the program. The name should be maximum 20 characters long (will be truncated if longer).



Please note that the program name can (of course) be different than the file name the program is saved in.

Behringer Pro-1 tab

In the **Behringer Pro-1** tab, you have access to the same parameters as on the actual synthesizer.

Please refer to the Behringer Pro-1 user manual

(<u>https://www.behringer.com/Categories/Behringer/Keyboards/Synthesizers-and-Samplers/Pro-</u> <u>1/p/PODRK</u>) for the explanations of each encoder/button.

PROBRAM: RUBBERBAND CATEGORY: INOT DEFINED] Behringer PRO-Vervelopes and Patches/Ubrary and Info/Patch sheet	FILE: RUBBERBAND.SYX BV: SMOOV-E ON: 2020-03-07
Suny Synths suny Synths@gmail.com	ετονία είδαμεια ειδύουτειδατόσοτ ειδονίαι ειδαύτεια είδατόσοτ είδατάσοτ είδατακίουτ είδατάσοτ στόσι Ο−−Ο Ο Ο Ο−−Ο Ο Ο Ο Ο Ο Ο Ο Ο Ο
MODULATION FROM FROM BODE MOUL	ILLATOR A ILLATOR B ILLATOR B

The third top screen is showing the name and the value of the parameter you are modifying.

Doing a single click on any rotary encoder is displaying its name and current value **without that you need to modify it**.

Modifying the ADSR encoders of the filter and the amplifier is setting identical encoders/buttons in the Envelopes and Patches tab and adapting the envelopes graphs accordingly.

Patch cables drawing

In this tab you can also draw your patch cables.

To draw a patch cable, click on an output patch point, keep the mouse button pressed, drag the cable to a patch input point then release the mouse button.

PROGRAM: RUBBERBAND	CATEGORY: INOT DEFINED]	FILE: RUBBERBAND.SYX BY: SMOOV-E ON: 2020-03-16	Load Save Init Rename
Behringer Pro-1 Envelopes and Patch	۶ sı çv in sı eşite in sı cv out : ths O—O O	รถ ฉหร้องการว อุงาพ รว อุงาศ พร อุงาศ รว อุงาศ อาการ 0 0 - 0 0 0	siq παο οιτ τεμι τε όιτ. Ο Ο Ο
FROMULATION FROM a b c owner a b c owner			
A S C WHEE UNW WW C C C C C C C C C C C C C C C C C C C	RED USE WIDT		AMOUNT AMOUNT

Depending on the state of **Cables** button in the **Envelopes and Patches** tab, either full cables (**Cables** button ON) or cable plugs (**Cables** button OFF) will be displayed.



As soon as you are using the same input or the same output twice, the Cables button will be locked ON and only full cables will be displayed.

All the patch cables are listed and can be further managed in the **Envelopes and Patches** tab.

It is always the next free cable that is selected automatically.

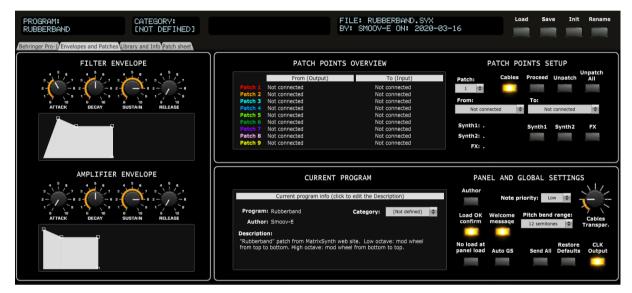
You delete an existing cable simply by re-drawing it from its output to its input.

In the Envelopes and Patches tab you can also adjust the transparency level of the cables.

Envelopes and Patches tab

In the Envelopes and Patches tab, you can:

- adjust the filter and loudness envelopes either with encoders or by moving the anchors of the graphs
- set/indicate up to 9 from/to patches
- delete a single patch cable or all at once
- switch between the display of patch cables or just cable plugs
- adapt the name of the external synths that could be connected to your Pro-1
- adapt the current program category, author and description (click on the current description to edit it)
- manage different panel settings
- manage 3 Global settings
- manually send or restore defaults Global settings



Envelope shapes

You can modify the envelope shapes by either turning the ADSR or by using the mouse and moving the anchors on the graphs either vertically or horizontally.



When moving the anchors, the corresponding ADSR encoders will also turn and the parameter name and value will be displayed in the screen of the top panel area.

Patch points

Besides drawing the patch cables directly on the front panel, you can also modify the from/to patches as follows:

From (Output)	To (Input)	Patch:	Cables	Proceed	Unpatch	Unpatc All
equencer track 1	Osc CV Int	1 单		Contraction	Constant of	Contraction of
udio Out	FX input					
FO CV Out	Cutoff CV In	From:		To:		
lot connected	Not connected	Sequencer track	1	(Osc CV In	4
lot connected	Not connected					
lot connected	Not connected	Curth 1				
lot connected	Not connected	Synthi:		Synth1	Synth2	FX
lot connected	Not connected	Synth2: _			C. C	
lot connected	Not connected	FX: .				
	equencer track 1 udio Out FO CV Out ot connected ot connected ot connected ot connected ot connected ot connected	equencer track 1 Osc CV Int udio Out FX input FO CV Out Cutoff CV In ot connected Not connected ot connected Not connected	equencer track 1 Osc CV Int 1 udio Out FX input FO CV Out Cutoff CV In From: Fo CV Out Cutoff CV In From: Fo connected Not connected Sequencer track ot connected Not connected Synth1: . ot connected Not connected Synth2: .	equencer track 1 Osc CV Int 1 1 COSC CV Int 1 CU INTERNATION OSC CV Int 1 CU INTERNATION OSC CV INT 1 CU INTERNATION OSC CONNECTED 1 CONNE	equencer track 1 Osc CV Int 1 1 1 udio Out FX input From: To: FO CV Out Cutoff CV In From: To: ot connected Not connected Sequencer track 1 1 ot connected Not connected Sequencer track 1 1 ot connected Not connected Sequencer track 1 1 ot connected Not connected Synth1: Synth1 ot connected Not connected Synth2: Image: Sequencer track 1	equencer track 1 Osc CV Int 1 1 1 udio Out FX input From: To: FO CV Out Cutoff CV In From: To: ot connected Not connected Sequencer track 1 Osc CV Int ot connected Not connected Sequencer track 1 Osc CV Int ot connected Not connected Synth1: _ Synth1 Synth2 ot connected Not connected Synth2: _ Image: Sequence track 1

Clicking anywhere on a patch line (label, input, output, blank space) will select the patch to be modified and display its values in the pull-downs. You modify the "From" source and/or "To" destination and press the Proceed button to make the change.

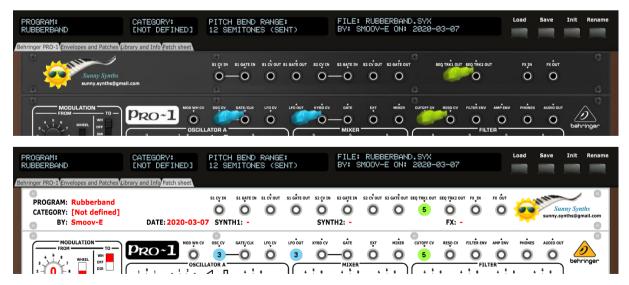
You can also directly select a patch cable in the **Patch** pull-down then modify the **From/To** and press **Proceed**.

Use the **Unpatch** button to delete a patch cable or the **Unpatch All** button to delete all of them at once.

Use the **Cables** button to switch the display on the main panel between patch cables and just cable plugs. This button will be locked on Cables display as soon as the same input or output is used two times.

Use the **Cables transparency** rotary to set the transparency of the patch cables (not the end plugs).

Patches are numbered 1 to 9 and have a color assigned to them. When a from/to patch is set in the Envelopes and Patches tab, corresponding patch cables are displayed on the main Pro-1 tab and corresponding colored numbered circles are displayed on the patch sheet.



Numbered circles are used to help colorblind people.

Available "From" sources are the output patch points of the synthesizer plus a few additional external ones: "Not connected", "LFO CV Out", "Keyboard CV Out", "Gate Out", "Mixer Out", "Filter Env Out", "Amp Env Out", "Phones", "Audio Out", "Synth1 CV output", "Synth2 CV output", "Synth1 Gate output", "Synth2 Gate output", "Sequencer track 1", "Sequencer track 2", "FX output"

Available "To" destinations are the input patch points of the synthesizer plus a few additional external ones: "Not connected", "Mod Wheel CV In", "Osc CV In", "Gate Clock In", "LFO CV In", "Ext In", "Cutoff CV In", "Resonance CV In", "Synth1 CV input", "Synth2 CV input", "Synth1 Gate input", "Synth2 Gate input", "FX input"

Clicking the **Author** button opens a popup window where you can modify the name of the author of the patch. The name should be maximum 15 characters long (will be truncated if longer). If you leave the Author name empty then a "?" is displayed.

Clicking the **Synth1** button opens a popup window where you can modify the name of a synth connected to your Pro-1. The name should be maximum 11 characters long (will be truncated if longer). If you leave the Synth1 name empty then a "-" is displayed.



Clicking the **Synth2** button opens a popup window where you can modify the name of a second synth connected to your Pro-1. The name should be maximum 11 characters long (will be truncated if longer). If you leave the Synth2 name empty then a "-" is displayed.

Clicking the **FX** button opens a popup window where you can modify the name of a FX chain connected to your Pro-1. The name should be maximum 15 characters long (will be truncated if longer). If you leave the FX name empty then a "-" is displayed.

Global settings

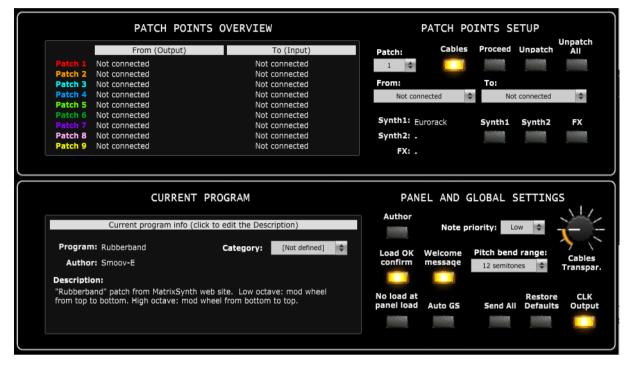
You can manage three Pro-1 global settings:

- Note priority
- Pitch Bend range
- Midi Clock Output

The settings are saved in each program sysex file and thus loaded with them.

The **Auto GS** button allows you to automatically send to the Pro-1 synth the global settings at program load or when each individual global setting is modified.

If you don't want this automatic send at load/change, keep the **Auto GS** button unlit and use the **Send All** button to send all global settings when you need it.



The parameter display will show (sent) or (unsent) to indicate what is happening.

You can restore all Global settings to their default values by pressing the **Restore defaults** button.

Panel settings



Load OK Confirm: by switching this OFF, there is no confirmation popup shown after loading a program. This avoids clicking on OK.

No load at panel load: by switching this ON, when re-opening the panel, the panel will be left as you closed it in the previous session. By switching this OFF, the last saved file is restored if found (or an Init program loaded if not found).

Welcome message: displays the Welcome message or not when opening the panel.

Library and Info tab

In the Library and Info tab, you have access to:

- a file browser that gives you directly information about the clicked file without having to load it
- the settings when playing a wav file
- an About screen giving you information about the panel version and the history of changes
- the Panel zoom buttons keeping the zoom factor in memory till next usage of the panel
- the display of all program parameters as a text file with the possibility to export it

	EGORY: T DEFINED]	FILE: RUBBERBAND. BV: SMOOV-E ON: 2		Load Save Init Re	ename			
Set Root Refresh Load Pi	lay	FILE BROWSER INFO	Display	Export Diff w/ Init				
🖬 📙 Others		Quick Info on last file selected in File browser	Current	program parameters				
Pro One owners manual Mo Arpeggiating Fifths.syx	Program: Arpeggiating	Fifths Author: Sequential	BEHRINGER PRO-1 P					
 Missing June Systems Missing June Systems Missing June Systems Missing June Systems Missing Fragments 	fifth above OSC B. Play c	Saved: 2020-03-17 In the Sequential Circuits Pro One manual. Tune OSC A a perfect hords. The LFO/CLOCK is controlling the APR and filter modulation pe. Change FILTER ENVELOPE AMOUNT and RESONANCE.	Category Author					
 N Filter as Oscillator.syx Filter as Oscillator.syx Figure Guitar.syx Figure Guitar.syx Percussive Organ.syx Phunko Basso.syx Phunko Basso.syx Pipe Organ Flute.syx 	Behringer Pro-1 panel v2.0 - 2021-02-28 Contact:	BEHRINGER PRO-1 PANEL	.Midi Clock Outpu MISCELLANEOUS .Master Tune .Glide Rate .Volume .Arp Mode	: 12 semitones tt: On : 0 : 0 : 5 : 5 : 0ff				
- 10 Plucked String.syx - 20 Pseudo Ring Mod Bells.syx Auto Play Duration: 3 sec •	sunny.synths@gmail.co	 Ability to switch between cables or patch plugs Support for double inputs / double outputs More visible switches position Added display info: differences only Added No program load at panel load button 	.Poly/Mono .Retrigger Mode .Repeat Mode .Drone Mode .Glide Mode	: Retrigger : Normal : Off	,			

File browser

The **File browser** allows you to navigate on your disk and browse through presets. It works as follows:

- Click on any file to display some info (name, category, author, saved date, description) about it in the Quick info window. If you click on a non-Pro-1 or .wav file then it will be indicated. When Auto Play is activated, clicking on a .wav file will play it automatically for the chosen duration and clicking on an Pro-1 .syx file will make the corresponding .wav file play automatically as well (if a wav file with the same name as the Pro-1.syx file is found)
- Double-click on a file to load it (Pro-1 .syx file) or play it (.wav file) directly. A popup will be displayed if you do this on a not recognized file type
- Use the Set Root button to select the folder where your presets are (at this stage, the patch saver doesn't remember the location after you quit it). Note that you must at least have one file in the selected directory in order to have Set root functioning.



Sometimes the Set Root doesn't work (displays nothing or stays on the currently selected root directory). I have still not found the reason (thought it was due to no file being present in the folder; only subfolders but seems not to be always the case).

Temporary workaround: just select one level higher. Sorry...

- Use the **Refresh** button to refresh the list after having saved several files or added files outside the patch save
- Use the Load button to load the selected file and display its parameters
- Use the Play button to manually start playing a .wav file

Audio file play settings



WAV files can be played on Windows and MacOS

AIF, AAC and MP3 can only be played on MacOS

The audio files will be played for the duration set in the **Duration** pulldown (3s, 5s, 10s or Full).

Activating **Auto Play** will automatically trigger the play of the .wav (.aif, .aac, .mp3) files OR trigger playing the .wav file corresponding to the clicked Pro-1 .syx file (if found). If there is no corresponding .wav (.aif, .aac, .mp3) file then nothing happens.



If some audio files are playing but not others, check that you are not using special characters in the filename. The panel can handle single quotes but not always other characters.

Panel zoom

	Zoom:	0% +			
About					
Behringer PRO-1 panel v1.0 - 2020-03-15	History of changes Version 1.0 - 2020-03-15				

The panel can be zoomed by using the Ctrl + or Ctrl – keys combinations. This is also available from the **View** menu.

Using that method is incrementing/decrementing the zoom factor by 10% steps but the main issue (for some users) is that the zoom factor is not memorized and thus at next usage the zoom is back at 100%.

This is the reason of the implementation of this "manual" zoom. Modifying the zoom factor using those buttons is changing the zoom by 5% steps and will make it keep the zoom factor for next usage.

If you are still modifying the zoom using the View menu or the Ctrlr + / Ctrlr – keys, no worries! The "manual" zoom is reading the current zoom factor on the panel each time one of the main top panel button is used (Load, Save, Init, Rename).

Display and Export info

On the right side of the panel, you have access to Program parameters:

- Use the **Display** button to list the parameters of the current program
- Use the Export button to export as a .txt file the parameters of the current program (it is not needed to first display them before exporting)
- Use the **Diff w/Init** switch to limit the display to only the differences with the Init program

Display Export	Diff w/ Init
territory provides	
Current program parar	neters
BEHRINGER PRO-1 PROGRAM	
.Name Rubberband	
.Category: [Not defin	ned]
.Author: Smoov-E	
.Date 2020-03-16	5
.Synth1 Model D	
.Synth2 .FX	•
GLOBAL SETTINGS	
.Note Priority	Low
.Pitch Bend Range	12 semitones
.Midi Clock Output:	On
MISCELLANEOUS	
.Master Tune	0
.Glide Rate	0
.Volume	5
.Arp Mode	Off
.Poly/Mono	Mono
.Retrigger Mode	Retrigger
.Repeat Mode	Normal
.Drone Mode	Off
.Glide Mode:	Normal 🔻

Patch sheet tab

In the **Patch sheet** tab, you have access to:

- A one shot view of the values of all parameters, patch cable connections and program info

PROGRAM: RUBBERBAND		CH BEND RANGE: SEMITONES (SENT)	FILE: RUBBERBAND.SYX BY: SMOOV-E ON: 2020-03-	07 Load Save Init Rename
	INOT DEFINED 12 S brary and Into Patch sheet DATE: 2020-03-07 SYN DATE: 2020-03-07 SYN OSCILLATOR O STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STORE STO	SEMITONES (SENT)	BY: SM00V-E DN: 2828-83- State Scover scatter Segregion Segregion State O O G G TH2: - F F F	
	FREQUENCY		ONO NORMAL NORMAL OFF	DECAY SUSTAIN RELEASE

The content of this tab is adapted automatically. Directly ready for a screenshot!

Installing and using the Pro-1 panel as plugin

First of all, thanks to all people that have made some tests and provided feedback from using the plugin with their DAW.

The following paragraphs will provide info on how to install the plugin version of the panel but also describe the way to use it and the known limitations for each DAW.

If your DAW is not listed, please perform some tests as described and send me the equivalent of text and screenshots. I'll add those in the next version of the manual.

Installation

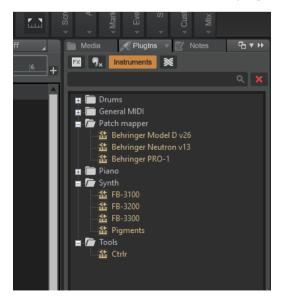
On Windows PC, depending on your DAW version and after unzipping the main file, either copy the **Behringer Pro-1.dll** file from the Windows VST 64 bits directory to your 64 bits plugins directory and/or the **Behringer Pro-1.dll** file from the Windows VST 32 bits directory to your 32 bits plugins directory (Steinberg hosts often use C:\Program Files\Steinberg\VSTplugins as the default plugin path).

On Mac OS, unzip then copy the **Behringer Pro-1.vst** file from the MacOS VST directory to your VST plugin directory (/Library/Audio/Plug-ins/VST) and copy **Behringer Pro-1.component** file from the MacOS AU directory to your plugin directory (/Library/Audio/Plug-ins/Component). You will most probably need administrator rights to perform those copies.

On MacOS you may also get the message that the "*Component or VST cannot be opened because the developer cannot be verified*". Go to System Preferences then Security and Privacy and click on the Open anyway button to have the plugin saved as an exception in the security settings.

Start your DAW and check that the plugin directory is rescanned and that the **Behringer Pro-1** panel is visible in your list of plugins.

Here is an example in Cakewalk (a light blue scanning popup is displayed as soon as a file is added or modified in the identified 64 bits VST plugins folder):



Tests and identified limitations

Different DAWs have been tested and some way of working presented here.

The following actions are checked:

- Creating a track using the plugin
- Displaying the instrument and checking all controls are working fine including Load/Save...
- Playing a wav file from the file browser. The DAW is often using ASIO while the wav files are played with the Windows or MacOs native player
- Saving and opening a project in the DAW. This is checking that the last patch saved is restored correctly. As in standalone mode, the last patch used is restored (not the last position of the knobs!)
- Creating a second track with the plugin
- Saving and opening a project in the DAW. This is checking that there can be different tracks using the plugin with each of their last patch saved restored correctly.
- Creating a preset in the DAW. Each DAW has different ways to do this. Creating presets can also be done by saving full channel strips that are including the VST instrument setup (Cakewalk, Reaper, Logic)
- Creating a track by selecting a DAW preset instead of selecting the plugin. Checks if the correct patch is restored. When working, this is done by loading a saved channel strip.
- Replacing a DAW preset by another DAW preset



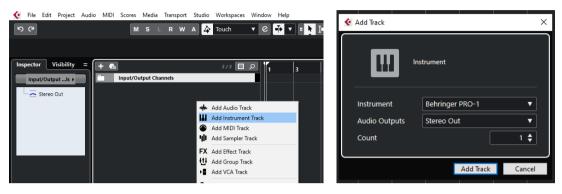
Replacing the DAW preset in a track by another DAW preset is working fine. The only remark is that you may get some popups if you directly switch between freshly created presets (just click Cancel in those popups). Creating a new track with the plugin and switching between existing DAW presets works fine and doesn't display the popups.

	Cubase	Cakewalk	Reaper	Ableton	Studio 1	Logic
Create track	\checkmark	1	\checkmark	\checkmark	1	1
Using the plugin	\checkmark	\checkmark	\checkmark	\checkmark	V	V
Play wav	\checkmark	\checkmark	\checkmark	\checkmark	X	V
Save and restore project in DAW	V	V	\checkmark	\checkmark	\checkmark	V
Save and restore project with 2 tracks	\checkmark	\checkmark	\checkmark	\checkmark	V	V
Create DAW preset	\checkmark	\checkmark	\checkmark	\checkmark	V	V
Create track based on DAW preset (saved channel strip)	1	1	1	×	1	V
Replace DAW preset by another DAW preset	\checkmark	\checkmark	\checkmark	\checkmark	1	1

Cubase

Creating a new track

Add an Instrument track by using the Add track menu displayed when right clicking in the middle of the workspace then select the Behringer Pro-1 VST. Click on the Instrument button to display the panel and use it as you would do for the standalone version.



... or by dragging and dropping from the VSTi panel (easier).



Listening to wav files associated a patch is also working even if ASIO is used as audio driver for Cubase while the wav file player is Windows.

When saving the Cubase project, the panel is saved as well. It will be restored with the last patch used and saved.

Using several Pro-1 tracks at once

You can associate the panel to several tracks in order to keep track of the different patches used for them. Just drag and drop the plugin two or more times.



Saving a patch as a Cubase preset

You should save your patches using the Save button **inside** the panel but in addition to that you can also save them as *Cubase preset* or *Cubase track preset*.

To save as Cubase preset, click on the small diamond to the left of the small camera icon at the top of the plugin window, select Save preset... then give a name to your preset.



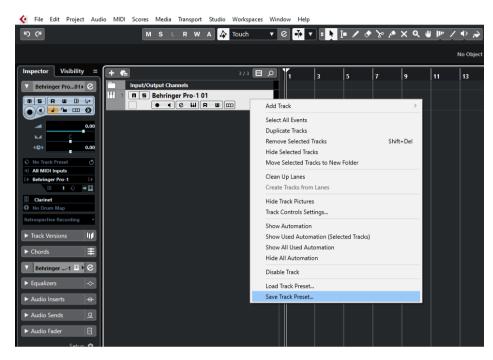
Later on, you can load a preset by using Load preset from the same menu or you can navigate through your presets by using the small up and downs triangle buttons.



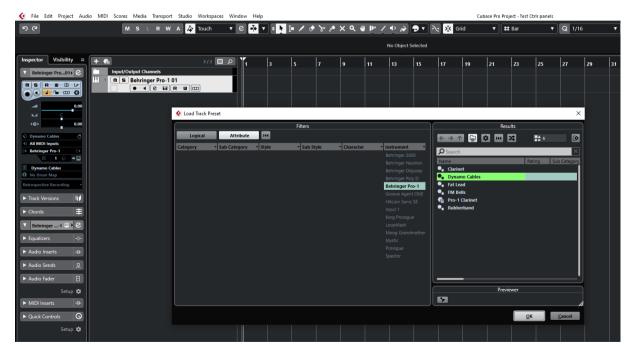
To save as Cubase track preset, select Save track preset when right clicking on a track.



When closing the panel after Saving the track preset, be sure to set the button **No program load at panel load** to OFF and to close the panel with the upper right red cross to have your buttons positions saved in memory.

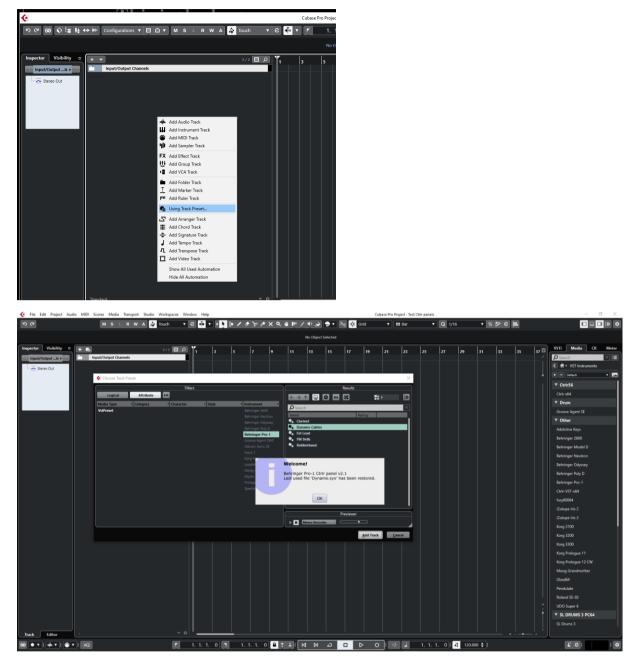


Later on, the content of the panel as is can be restored directly in a new empty track without the need of a Load from the panel by selecting Load track preset when right clicking on a track.



Creating a new track from a Cubase track preset

When creating a new track you can directly pick Using track preset from the menu. The patch will appear in the panel on a new track without the need of a using Load from the panel



Replacing the preset on an existing track by another preset

This is now working fully fine since version 2.3. Just select another previously saved preset at the top left of the plugin window. All buttons will be positioned according to the newly loaded presets.

You can also scroll through the presets with the small up/down buttons.

Cakewalk by Bandlab

Creating a new track

Drag the Pro-1 plugin from the Instruments plugin window (Synths) and drop it on the main window to create a new track.

Click on the instrument icon near the track name to display the panel.



Load a preset from inside the panel and use it as you would do for the standalone version.

Listening to wav files associated a patch is also working even if ASIO is used as audio driver for Cakewalk while the wav file player is Windows or MacOs.

When saving the Cakewalk project, the panel is saved as well. It will be restored with the last patch used and saved.

Using several Pro-1 tracks at once

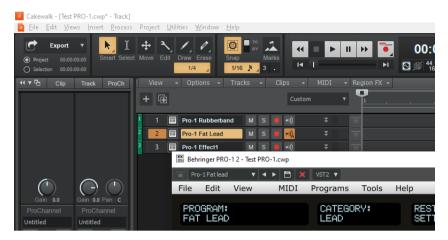
Works fine. To keep several plugin windows opened at once you need to pin them first (pin icon on top right of a plugin window). Patches and windows are restored when re-opening the project.



sunny.synths@gmail.com

Saving a patch as a Cakewalk preset

It is possible to save the current patch as a Cakewalk preset by changing the name at the top of the plugin window (here "Fat Lead") then clicking on the Save button.

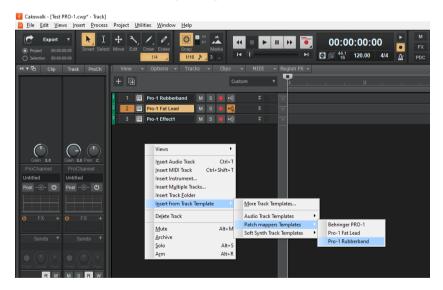


It is also possible to save a complete mixer channel as track template.

Creating a new track from a Cakewalk preset

Not found... It seems it is always needed to first create a track with the instrument plugin and then to select a preset.

Another possibility would be to save each preset as a separate track template then to create the track from those track template "presets".



Replacing the preset on an existing track by another preset

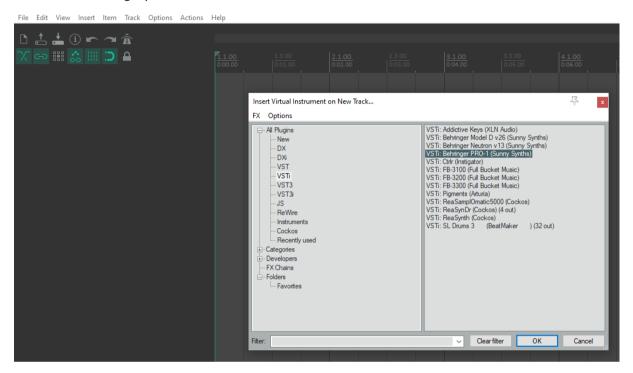
This is now working fully fine since version 2.3. Just select another previously saved preset at the top left of the plugin window. All buttons will be positioned according to the newly loaded presets.

Reaper

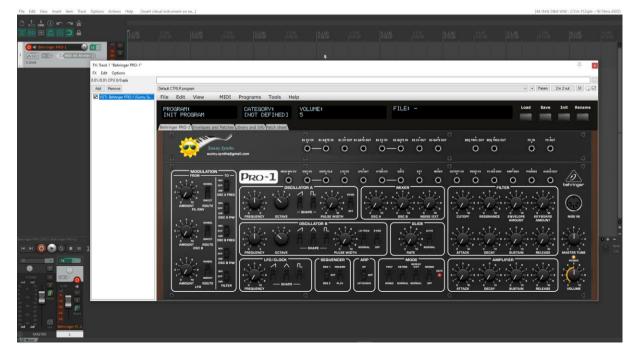
Reaper is available on Windows and MacOS. On MacOS, Reaper is supporting both VST and AU plugin versions.

Creating a new track

Select Insert virtual instrument on new track in the Track menu then select the Behringer Pro-1 VST from the VSTi category



Click on the FX button to display the panel and use it as you would do for the standalone version (right-clicking instead of direct click gives only the plugin window without the blank side area)



Page 35 of 51

Listening to wav files associated a patch is also working even if ASIO is used as audio driver for Reaper while the wav file player is Windows or MacOs.

When saving the Reaper project, the panel is saved as well. It will be restored with the last patch used and saved.

Using several Pro-1 tracks at once

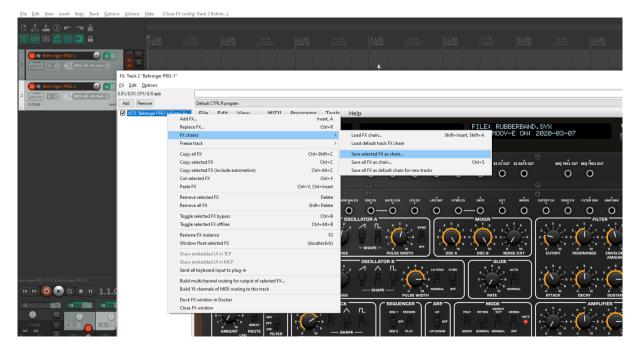
Works fine:



Saving a patch as a Reaper preset

Two different methods are possible:

- Save FX chain Right click on VST name in white area of plugin window then select FX chain
- Save preset Click on the + button in the plugin window then name the preset



Behringer Pro-1 Ctrlr panel documentation and instructions

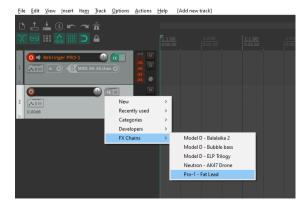
ault (CTRLR program	n											✓ + Para	m 2 in 2	out UI 🕠
le	Edit	View	MIDI	Programs To	ols Help)									
RUE	OGRAM: BBERBAN			CATEGORY: INOT DEFI					LE: RUBB : SMOOV-		SYX 020-03-07		Load Sa	ve In	it Rename
hrin	nger PRO-1	Envelopes ar	nd Patches	ibrary and Info Patch	sheet					0					
	. 🥰		<i>ny Synths</i> y.synths@gm	all.com		51 ÇV IN 51 GĄTE IN 00	51 CV OUT 51 GATE OU	T 52 CÝ IN 52 G O (S2 GATE OUT	SEQ TRK1 OUT	SEQ TRK2 OUT	FX IN	FX OUT	
	ە بىنى:			PRC Preset	e Preset name: <u>Pro-1 R</u>	Rubberband	ОК	~ - 0		MIXER C			/ phônes a		Dehringer
	AMOUN		OSC A FREQ.	4 5 FREQUENCY		- SHAPE - PULSE V			5 6 7 3 - 8 2	5 6 7 7 8 10 SE/EXT					
	AMOUN	DIRECT OSC B	WH OFF DIR OSC B FREQ WH			OSCILLATOR B						AMOL		6 7 2 	
	3 4 5 1 2		OFF DIR OSC B PW WH OFF DIR	4 5 6 2	OCTAVE	L SEQUE	RECORD UP	POLY F			ATTACK			6 7 	ASTER TUNE

Presets are appearing under User presets



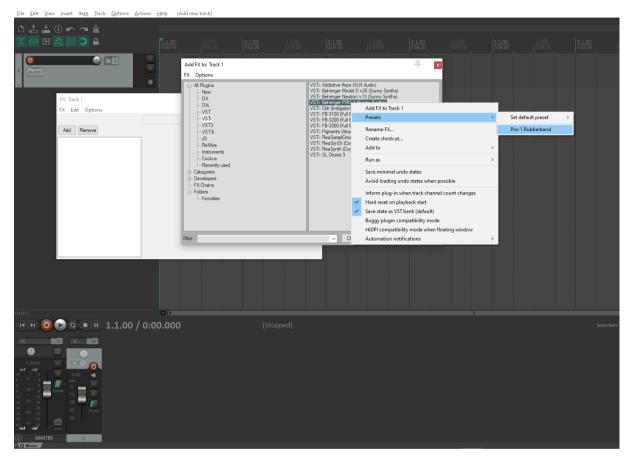
Creating a new track from a Reaper FX chain preset

Create an empty track then right click on grey FX button to select a saved FX chain



Creating a new track from a Reaper preset

This is not possible directly but well in two steps. First, create an empty track then click on grey FX button to display the Track FX window with the VST plugins list. Then, right click on the Pro-1 plugin and select a saved preset under Presets



Replacing the preset on an existing track by another preset

Click on the green FX button then in the FX track window, select the FX and press the Remove button.

Add the new one as described above.

Ableton

Status: This has been tested in Ableton Live Lite 10 and it is thus expected to work fine in the full versions.

Creating a new track

Drag the Pro-1 plugin from the plugin browser and drop it on the main window to create a new track.

The panel should open automatically. If not, click on the small wrench icon in the small window at the bottom.

Sans titre" - Ableton Live 1 Fichier Edition Créer Aff							- 0
Link Tep 120.00 #11 1	Contraction of the local division of the loc				+ 1. 1.		
Collections Favoria	Nom	1 MiDr II II	2 MIDI III	3 Audio		5 Behringer PR	A Month Brangement Annual An
Catégories D Sounds Sounds O Instruments H Audie Effects	 BREVERS SONAR Boox11 Raum Pigmants Korg Vocoder Korg 3000 	File	inger PRO-1/5-Behringe a Edit View ROGRAM: UBBERBAND		Programs CATEGOR ENOT DE	XY:	FILE: RUBBERBAND.SVX BY: SNOUV-E CN: 2020-03-07
C Plug-ins C Plug-ins C Iga Samples C Places C Places	Korg 3200 Kit K	Beh	ringer PRO-1 Envelop	Sunny Synths		Patch sheet	ақал ақара абағалайы шқа ақара исім алайын ақайын түр лін 0—0 0 0 0—0 0 0 0 0 0 0 0
Protonic Que utilisateur Projet actuel Sounds of the Universe Heavy Industry Acouter dossier	Addictive Keys		325	HEEL OFF A FREQ	PRO		
		MIDI All In- I An Moni MiDi No G	¢	HEEL WH CHEAN CHEA	FREQUENCY	OCTAVE	
			Sec.	HEEL OSC B PW WN HEET CHT DUTE FILTER		FO/GLOCK	H 1#H 1# H H H H H # 5/25/02:02:02:02:02:02:02:02:02:02:02:02:02:0
0			0			-	
	O Petringer PRO-3 Sidechain No input	efault CTRLR pro					
	0.00 rdl Mix 200 h	Inore					Digener rici tes effete audio
							3 Sebilger HG 1

Load a preset from inside the panel and use it as you would do for the standalone version.

Listening to wav files associated a patch is also working even if ASIO is used as audio driver for Ableton while the wav file player is Windows or MacOs.

When saving the Ableton project, the panel is saved as well. It will be restored with the last patch used and saved.

Using several Pro-1 tracks at once

Works fine. To keep several plugin windows opened at once you need to change the masking of plugin setup in Preferences. Patches and windows are restored when re-opening the project.

	∎ 4 / 4 O● • 1Bar •		• 1. 1. 1 > 1 •	+ 🖋 + 🔅 O 3. 1. 1 🔪 🖓 🖍 4. 0. 0			🗶 🔣 Kay	MIDI 01
			Audio 4 Audio 5 Behringer PR	Behringer PR		A Reverb	8 Delay	Master
otions	Nom							1
voris	▶ SL DRUMS 3 PC64	Behringer PRO-1/6-Behringer PRO-1					>	2
	► BREVERB SONAR	File Edit View MIDI Pro	rograms Tools Help					4
ries	Boost11				Load Save	Init Rename		5
unds uma	Roum Repents		CATEGORY:	FILE: EFFECT 1.SYX		Init Rename		- 6
truments	Korg Vocader	EFFECT 1	SOUND FX	BY: ANTILLES MUSIC ON: 2020-	03-06		Þ	7
dio Effects	Rorg 3300	Behringer PRO-1 Envelopes and Patches Librar					Þ	• •
DI Effects	199 Korg 3200	Benninger PRO-1 (Envelopes and Patches (Libral	ary and this patch sheet					
ug-ins	STR Korg 3100			n ninganing non norm noing outra	ning on the			
ps	P fbdelay64	Behringer PRO-1/5-Behringer	r PRO-1					10
mples	Ctrir-VST-x64	File Edit View	MIDI Programs Tools He					
	Behringer PRO-1	File Edit View	MIDI Programs Tools He	ip				-
sces	Behringer Neutron	PROGRAM:	CATEGORY:	FILE: RUBBERBAND.	392	Load Save	Init Renam	
cka	Behringer Model D	RUBBERBAND	[NOT DEFINED]	BY: SMOOV-E ON: 20		and and	100000 100000	
iliothèque utilisateur ajet actuel	Addictive Keys	(i				and here	inst inst	
		Behringer PRO-1 Enveloper	es and Patches Library and Info Patch sheet					
jet actuel unds of the Universe								

It is possible to save the current patch as an Ableton **.fxp** preset by clicking on the Save button in the small instrument window at the bottom.



Creating a new track from an Ableton preset

Not found... It seems it is always needed to first create a track with the instrument plugin and then to select a preset as described in next paragraph.

Replacing the preset on an existing track by another preset

This is now working fully fine since version 2.3. Just select another previously saved preset at the top left of the plugin window. All buttons will be positioned according to the newly loaded presets.

Studio One

Status: This has been tested in Studio One 3.5 32 bits and 4.6 64 bits version.

Playing the wav file associated to a patch seems not working.

Creating a new track

Drag the Pro-1 plugin from the plugin browser and drop it on the main window to create a new track.

The panel should open automatically. If not, click on the small Instrument editor icon on the right side of the track name.



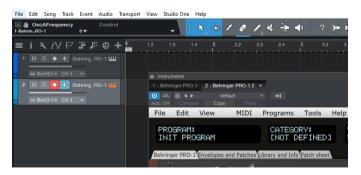
Load a preset from inside the panel and use it as you would do for the standalone version.

Listening to wav files associated a patch is not working even if ASIO is used as audio driver for Studio One while the wav file player is Windows or MacOs.

When saving the Studio One song, the panel is saved as well. It will be restored with the last patch used and saved.

Using several Pro-1 tracks at once

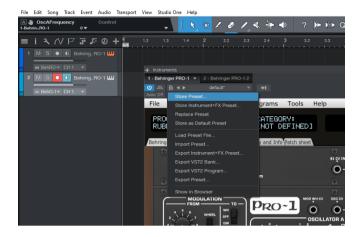
Works fine. The instrument editor is showing one tab by track:



Saving a patch as a Pro-1 Studio One preset

You can save the last patch saved in the panel as a preset in Studio One by selecting Store preset in the plugin window preset menu.

In the popup menu, input the name of a Subfolder corresponding for example to the sound category.



Creating a new track from a Studio One preset

The presets and their subfolders created with the above method are appearing directly in the browser under the Pro-1 VST name in the Instruments tab or in the Files tab



Replacing the preset on an existing track by another preset

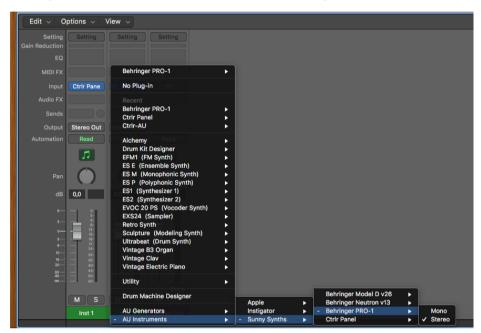
This is now working fully fine since version 2.3. Just select another previously saved preset at the top left of the plugin window or with Load preset file. All buttons will be positioned according to the newly loaded presets.

Logic Pro X

Logic Pro X is only available on MacOS and handles only the AU plugin version so you must secure to have the Behringer Pro-1.component plugin file in your AU plugin directory.

Creating a new first track

Create a new instrument track and select the Behringer Pro-1 plugin for it (under AU instruments) by clicking on the small Instrument editor icon on the right side of the track Input.



Click in the middle of the track Input to open the panel.

🔹 Logic Pro X File Edit Track Navigate Record Mix View	Window Help			⊊p ≜ Sun 21:16 Q i≣
		Test Ctrir - Tracks		
ⓐ ④ ② ☆ +41 次		1.1 120 4/4 v 234 A		C Q #
Edit - Functions - View	5 6 7 8 9 10 11 12	¥.∽ 13 14 15 16 17 18 19 20 21	22 23 24 25 26 27 2	Image:
		nst1		
File Edit View MIDI Progra	ams Tools Help			
PROGRAM: CA INIT PROGRAM IN	TEGORY: YOLUME: IOT DEFINED:1 5	FILE: -	Load Save Init Rename	
Behringer PRO-1 Envelopes and Patches Library as	nd Info Patch sheet			
·		ระดุษ ธะณุทพ ธะด้อยา ธะณากับยา พอาหน้าอยา หลุกพระอยา	нун кол	
Sunny Synths sunny synths@gmail.com	0-0 0 0	0-0 0 0 0 0	0 0	
	MODIWHICH ORECH EMILICIK LADER TROPAL	หายอ่อง อม้าย อาก หน้อย อบาวกรง สอาก การสำนาน มห	artenv mežes augógur 🔿	
			0 0 0 behringer	
		MIXER FILTER		
	La O <u>1 1</u> 3/3 1 1 3	13313313131313131313		
		ISC A OSC B NOISE /EXT	NVELOPE KEYBOARO MIDI IN IMOUNT AMOUNT	
	· · · · · · · · · · · · · · · · · · ·	xmo Auto		
			SUSTAIN RELEASE MASTER TUNE	
A A A A A A A A A A A A A A A A A A A	LFO/CLOCK SEQUENCER	MODE POLY RETHER TEXT DRONE POLY RETHER TEXT DRONE		
Contraction of the second				
	SEG B PLAY	MOND NORMAL NORMAL OFF		
	0	0	G	
	Benrinç	ger PRO-1		

Load a preset from inside the panel and use it as you would do for the standalone version.

Listening to wav files associated a patch is also working even if ASIO is used as audio driver for Logic while the wav file player is MacOs.

When saving the Logic project, the panel is saved as well. It will be restored with the last patch used and saved.

Using several Pro-1 tracks at once

Works fine since v2.1 and can be done by simply creating two tracks with the plugin.



If wished, one can also create a channel strip:

 Save the Init patch as a channel strip preset in Logic by clicking on the Setting button at the top of the channel strip in the mixer and selecting Save Channel Strip Setting as...



 New tracks will be created based on that Init channel strip and can then be changed afterwards to other patches with the Load button

Saving a patch as a Pro-1 Logic preset

You can save the last patch saved in the panel as a plugin preset in Logic by selecting **Save As** in the pulldown menu of the preset area at the top of the plugin window. An .aupreset file will be created.



Saving a patch as a Pro-1 Logic channel strip preset

You can save the last patch saved in the panel as a channel strip preset in Logic by clicking on the Setting button at the top of the channel strip in the mixer and selecting Save Channel Strip Setting as.... Note that this is different than saving a plugin preset.

Creating a new track from a Logic channel strip setting

This is not possible directly but well in two steps. First, create a new Software Instrument track then click on the Setting button at the top of the channel strip in the mixer and select a previously saved channel strip setting.

Replacing the preset on an existing track by another preset

This is working well when selecting a previously saved .aupreset file. Just select another previously saved preset by selecting Load in the top left menu of the plugin window. All buttons will be positioned according to the newly loaded preset, patch cables and all labels will be restored.



This is also working fine with Channel Strips Settings. When replaced, a popup indicates that the Last file used "xxx" has been restored.

v2.4

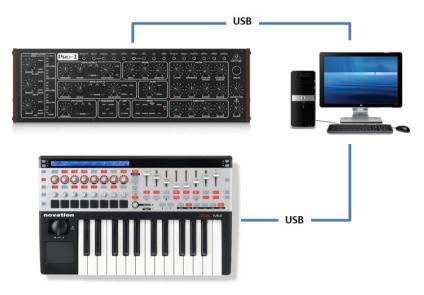
Using a controller to move the buttons

If you connected a controller like the Novation SL MkII then you can benefit from moving all knobs of the panel from your controller.

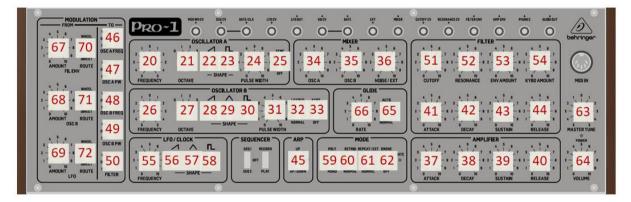
This has been achieved by assigning Midi CC controller numbers to all the knobs.

Of course, as nothing is changed in the hardware, moving the knobs from your controller will not affect the sound as such.

Connect your controller for example as in Configuration 1 presented on page 8



Controller numbers are the following:



As part of the provided files, you get 2 Novation SL MkII templates (page 1 and page 2). Install them I 2 consecutive advanced templates presets. You can then navigate between page 1 and 2 using the row select buttons of your SL MkII.

The main Ctrlr menus



Actually, not so much is used from the Ctrlr menus...

What you can use is:

- File menu: Quit is the only option
- View menu: allows zooming the panel in and out by 10% steps
- Midi menu: to select your Pro-1 as Output Midi device and to set its Midi channel; to set the Midi Thru (Input->Output)...
- Tools menu: use the Midi monitor popup to verify the messages between the panel and the synth
- **Help** menu: displays the About info of the panel

Ctrir		201, Build date = Wed Mar 30 00:52:44 CED = Nightly, Juce = 4.0.2, libusb = 1.0.19, liblo
Instan	ice name	Behringer Pro-1
	Author	Sunny Synths
	Version	2.4
	URL	www.sunnysynths.com
Behringer Pro-1 panel - v2.4	- 2023-07-21	
This panel will allow you to s It is actually only a patch sa	ave and restore Be ver as nothing is ex	chringer Pro-1 program settings. kchanged with the synth. ent requests or just to say Hello!

Appendix

Version history

Date	Version	Description	Ву
2020-03-15	1.0	First version of this manual	Sunny Synths
2021-02-28	2.0	Added patch cables drawing	Sunny Synths
2021-03-14	2.1	Possibility to replace presets in DAW	Sunny Synths
2021-05-10	2.2	Display Info Diff w/ Init button is now a switch	Sunny Synths
2021-11-28	2.3	Welcome message switch, Load OK confirm switch, Cables transparency, DAW presets restore is OK	Sunny Synths
2023-07-21	2.4	Some corrections	Sunny Synths

Pro-1 information

The Behringer Pro-1 product page:

https://www.behringer.com/Categories/Behringer/Keyboards/Synthesizers-and-Samplers/Pro-1/p/PODRK

A Pro One page: <u>https://greatsynthesizers.com/en/review/sequential-pro-one-best-vintage-monophonic/</u>

Specific MacOS setup issues

Do not use the standard decompress command

For an unknown reason, some users may face problems with the program when it has been decompressed using the standard decompress command. One user found that using a program like "The Unarchiver" was solving the issue.

Developer cannot be verified

On MacOS you may get the message that the "Component or VST cannot be opened because the developer cannot be verified".

Go to System Preferences then Security and Privacy and click on the Open anyway button to have the plugin saved as an exception in the security settings.

For the AU (from a user):

To validate the AU plugin in any OS of Catalina or newer, you'll need to disable System Integrity checking (the system equivalent of ctrl-clicking the app).

This is done by restarting holding down CMD-R, choose terminal from the top bar menu once logged in to the recovery console, and typing the following command:

/usr/bin/csrutil disable

It will then stop telling you it can't be validated and do you want to put it in the bin!

For the VST (from another user)

Just ran the VST on Monterey OS X and it failed. I took my VST and ran 3 commands:

sudo xattr -cr

sunny.synths@gmail.com

v2.4

sudo xattr -r -d com.apple.quarantine

sudo codesign --force --deep --sign -

Opened up my Ableton - everything works like a charm.

Sysex file documentation

Here is the documentation of the sysex file used to store the parameters. It is 600 bytes long.

```
-- // Behringer Pro-1 - Sound data sysex structure - Size=600 bytes v1.0 //
___
-- Offset is what is displayed with HxD Hexadecimal analyser
-- getByte() is also using the Offset to retrieve Bytes from sysex dump
___
-- This is just a structure used to save the data on the computer
-- Nothing official or unofficial from Behringer, just a decision made by me ;-)
-- This data is not transferred by Midi
--100 = 64
--140 = 4C
          | Byte content
-- Offset
__ _____
-- 0000
              FO
                             Sysex start
             00 20 32 Behringer ID
  0001-3
___
                  00 01 08
-- 0004-6
             Pro-1
-- 0007
              1
                  01
                             Sound data
  0008-9
             ___
                  00-64
                             Oscillators Frequency (32=0)
                             Oscillators Octave
-- 0010-11
             1
                  00-64
-- 0012-13
             00-01
                             Oscillators Saw Shape
             00-01
  0014-15
                              Oscillators Pulse Shape
___
              Osc B Triangle Shape
-- 0016
                  00-01
-- 0017-18
             00-64
                             Oscillators Pulse Width
  0019
              1
                   00-01
                              Osc A Sync
___
-- 0020
              00-01
                             Osc B Low Frequency
-- 0021
              1
                  00-01
                              Osc B Keyboard
-- 0022-23
             1
                   00-64
                              Oscillators Level
--- 0024
              00-64
                             Noise Level
--- 0025
              00-64
                              Filter Cutoff
--- 0026
                   00-64
                              Filter Resonance
              --- 0027
              00-64
                              Filter Env Amount
--- 0028
                   00-64
                             Filter Keyboard Amount
              1
-- 0029
                             EG1 Attack Time
              00-64
-- 0030
               00-64
                             EG1 Decay Time
                   00-64
                              EG1 Sustain Level
-- 0031
               L
```

0032 1 00-64 EG1 Release Time 0033 1 00-64 EG2 Attack Time 0035 1 00-64 EG2 Release Time 0036 1 00-64 EG2 Release Time 0037 1 00-64 Master Tune (32=0) 0038 1 00-64 Volume 0040 1 00-02 Arp Mode 0041 1 00-01 Poly Mono 0043 1 00-01 Retrigger Mode 0043 1 00-01 Repeat Mode 0043 1 00-01 Repeat Mode 0044 1 00-01 Drone Mode 0044 1 00-01 Midi CLK Output (default = 00) 0044 1 00-01 Midi CLK Output (default = 01) 0046 1 00-02 Patch source (1-9) 0048 1 00-01 Patch destination (1-9)
0034 00-64 EG2 Decay Time 0035 00-64 EG2 Sustain Level 0036 00-64 EG2 Release Time 0038 00-64 Glide Rate 0039 00-64 Volume 0040 00-02 Arp Mode 0041 00-01 Repay Mode 0042 00-01 Repay Mode 0043 00-01 Brone Mode 0044 00-01 Drone Mode 0044 00-01 Brone Mode 0044 00-01 Drone Mode 0044 00-01 Mode 0044 00-01 Mode 0044 00-01 Mode 0046 00-01 Mode 0047 00-02 Not used
0035 I 00-64 EG2 Sustain Level 0036 I 00-64 EG2 Release Time 0037 I 00-64 Glide Rate 0038 I 00-64 Volume 0039 I 00-64 Volume 0040 I 00-02 Arp Mode 0041 I 00-01 Poly Mono 0043 I 00-01 Repeat Mode 0043 I 00-01 Drone Mode 0044 I 00-01 Drone Mode 0045 I 00-01 Glide Mode 0046 I 00-02 Note Priority (default = 00) 0047 I 00-18 Pitch Bend Range (default = 01) 0048 I 00-01 Mate ILK Output (default = 01) 0047 I 00-02 Patch destination (1-9)
0036 00-64 EC2 Release Time 0037 00-64 Glide Rate 0038 00-64 Volume 0039 00-64 Volume 0040 00-02 Arp Mode 0041 00-01 Poly Mono 0042 00-01 Repeat Mode 0043 00-01 Drone Mode 0044 00-01 Drone Mode 0045 00-01 Drone Mode 0046 00-02 Note Priority (default = 00) 0046 00-02 Not used 0048 00-01 Midi CLK Output (default = 01) 0048 00-02 Patch destination (1-9) 0059-67 00-08 Patch destination (1-9) 0068-87 Name (20 characters)
0037 I 00-64 Glide Rate 0038 I 00-64 Water Tune (32=0) 0039 I 00-64 Volume 0040 I 00-02 Arp Mode 0041 I 00-01 Foly Mono 0042 I 00-01 Retrigger Mode 0043 I 00-01 Repeat Mode 0044 I 00-01 Drone Mode 0045 I 00-01 Glide Mode 0046 I 00-02 Note Priority (default = 00) 0047 I 00-18 Pitch Bend Range (default = 01) 0048 I 00-10 Mid CLK Output (default = 01) 0049 Not used 0049 0059-58 I 00-10 Category 0059-67 I 00-10 Category 0088 I 00-10 Category
0038 1 00-64 Master Tune (32=0) 0039 1 00-64 Volume 0040 1 00-02 Arp Mode 0041 1 00-01 Poly Mono 0042 1 00-01 Repaid Mode 0043 1 00-01 Repead Mode 0044 1 00-01 Drone Mode 0045 1 00-01 Glide Mode 0046 1 00-02 Note Priority (default = 00) 0047 1 00-18 Pitch Bend Range (default = 01) 0048 1 00-01 Midi CLK Output (default = 01) 0048 1 00-02 Patch destination (1-9) 0059-57 1 00-08 Patch destination (1-9) 0059-67 1 00-10 Category 0058 00-10 Category 0088 1 00-10 Synth1 (11 characters)
0039 1 00-64 Volume 0040 1 00-02 Arp Mode 0041 1 00-01 Foly Mono 0042 1 00-01 Retrigger Mode 0043 1 00-01 Repeat Mode 0044 1 00-01 Drone Mode 0045 1 00-01 Glide Mode 0046 1 00-02 Note Priority (default = 00) 0046 1 00-02 Note Priority (default = 01) 0047 1 00-18 Pitch Bend Range (default = 01) 0048 1 00-01 Patch destination (1-9) 0059-57 1 00-08 Patch destination (1-9) 0058-58 00-010 Category 0088 1 00-10 Category 0088 1 00-10 Category 0380-369 1 Date (10 characters) </td
0040 00-02 Arp Mode 0041 00-01 Foly Mono 0042 00-01 Retrigger Mode 0043 00-01 Repeat Mode 0044 00-01 Drone Mode 0045 00-01 Glide Mode 0046 00-02 Note Priority (default = 00) 0046 00-02 Note Priority (default = 00) 0047 00-18 Pitch Bend Range (default = 01) 0048 00-01 Midi CLK Output (default = 01) 0048 00-02 Patch source (1-9) 0049 Not used 0050-58 00-0C Patch destination (1-9) 0058-67 Name (20 characters) 0088 00-10 Category 0089-344 Description (256 characters) 0345-359 Author (15 characters) 0346-369 Synth1 (11 characters) 0390-400 Synth2 (11 characters)
0041 00-01 Foly Mono 0042 00-01 Retrigger Mode 0043 00-01 Repeat Mode 0044 00-01 Drone Mode 0045 00-01 Glide Mode 0046 00-02 Note Priority (default = 00) 0047 00-18 Pitch Bend Range (default = 01) 0048 00-01 Midi CLK Output (default = 01) 0049 Not used 0059-58 00-0C Patch destination (1-9) 0059-67 00-0B Patch destination (1-9) 0088 00-10 Category 0088 00-10 Category 0089-344 Description (256 characters) 0345-359 Author (15 characters) 0360-369 Date (10 chars for ISO date yyyy-mm-dd) <
0042 00-01 Retrigger Mode 0043 00-01 Drone Mode 0044 00-01 Glide Mode 0045 00-02 Note Priority (default = 00) 0046 00-02 Note Priority (default = 00) 0047 00-18 Pitch Bend Range (default = 01) 0048 00-01 Midi CLK Output (default = 01) 0049 Not used 0050-58 00-00C Patch destination (1-9) 0059-67 00-0B Patch destination (1-9) 0068-87 Name (20 characters) 0088 00-10 Category 0088 00-10 Category 0345-359 Author (15 characters) 0360-369 Date (10 chars for ISO date yyyy-mm-dd) 0379-389 Synth1 (11 characters) <t< td=""></t<>
0043 00-01 Repeat Mode 0044 00-01 Drone Mode 0045 00-01 Glide Mode 0046 00-02 Note Priority (default = 00) 0047 00-18 Pitch Bend Range (default = 01) 0048 00-01 Midi CLK Output (default = 01) 0049 Not used 0050-58 00-0C Patch destination (1-9) 0059-67 00-0B Patch destination (1-9) 0068-87 Name (20 characters) 0088 00-10 Category 0089-344 Description (256 characters) 0380-369 Date (10 chars for ISO date yyyy-mm-dd) 0345-359 Author (15 characters) 0360-369 Date (10 chars for ISO date yyyy-mm-dd) 0379-389 Synth1 (11 characters)
0044 00-01 Drone Mode 0045 00-01 Glide Mode 0046 00-02 Note Priority (default = 00) 0047 00-18 Pitch Bend Range (default = 0c) 0048 00-01 Midi CLK Output (default = 01) 0049 Not used 0050-58 00-0C Patch source (1-9) 0059-67 00-0B Patch destination (1-9) 0068-87 Name (20 characters) 0088 00-10 Category 0089-344 Description (256 characters) 0360-369 Date (10 chars for ISO date yyyy-mm-dd) 0360-369 Date (10 characters) 0379-389 Synthl (11 characters) 0401-415 FX (15 characters) 0416 00-64 LFO Frequency 0416 00-64 LFO Triangle Shape 0418 00-64 LFO Pulse Shape 0420 00-64 From
0045 1 00-01 Glide Mode 0046 1 00-02 Note Priority (default = 00) 0047 1 00-18 Pitch Bend Range (default = 0C) 0048 1 00-01 Midi CLK Output (default = 01) 0049 1 Not used 0050-58 1 00-0C Patch destination (1-9) 0059-67 1 00-0B Patch destination (1-9) 0068-87 1 Name (20 characters) 0088 00-10 Category 0089-344 1 Description (256 characters) 0345-359 1 Author (15 characters) 0360-369 1 Date (10 chars for ISO date yyyy-mm-dd) 0390-400 1 Synth1 (11 characters) 0390-400 1 Synth2 (11 characters) 0416 00-64 LFO Frequency 0417 00-64 LFO Triangle Shape 0418 00-64
0046 00-02 Note Priority (default = 00) 0047 1 00-18 Pitch Bend Range (default = 0c) 0048 1 00-01 Midi CLK Output (default = 01) 0049 1 Not used 0059-57 1 00-0C Patch source (1-9) 0059-67 1 00-0B Patch destination (1-9) 0068-87 1 Name (20 characters) 0088 00-10 Category 0089-344 1 Description (256 characters) 0045-359 1 Author (15 characters) 0345-359 1 Date (10 chars for ISO date yyyy-mm-dd) 0360-369 1 Date (10 characters) 0360-369 1 Synth1 (11 characters) 0390-400 1 Synth2 (11 characters) 0401-415 1 FX (15 characters) 0416 00-64 LFO Frequency 0417 1 00-64 <td< td=""></td<>
0047 00-18 Pitch Bend Range (default = 0C) 0048 00-01 Midi CLK Output (default = 01) 0049 Not used 0050-58 00-0C Patch source (1-9) 0059-67 00-0B Patch destination (1-9) 0068-87 Name (20 characters) 0088 00-10 Category 0089-344 Description (256 characters) 0345-359 Author (15 characters) 0360-369 Date (10 chars for ISO date yyyy-mm-dd) 0379-389 Synth1 (11 characters) 0401-415 FX (15 characters) 0416 00-64 LFO Frequency 0416 00-64 LFO Triangle Shape 0418 00-64 LFO Pulse Shape 0420 00-64 From Filter Env Amount 0421 00-64 From Osc B Amo
0048 00-01 Midi CLK Output (default = 01) 0049 Not used 0050-58 00-0C Patch source (1-9) 0059-67 00-0B Patch destination (1-9) 0068-87 Name (20 characters) 0088 00-10 Category 0089-344 Description (256 characters) 0345-359 Author (15 characters) 0360-369 Date (10 chars for ISO date yyyy-mm-dd) 0379-389 Synthl (11 characters) 0390-400 Synth2 (11 characters) 0401-415 FX (15 characters) 0416 00-64 LFO Frequency 0416 00-64 LFO Triangle Shape 0418 00-64 LFO Pulse Shape 0420 00-64 From Filter Env Amount 0421 00-64 From Osc B Amount <tr< td=""></tr<>
0049 I Not used 0050-58 I 00-0C Patch source (1-9) 0059-67 I 00-0B Patch destination (1-9) 0068-87 I Name (20 characters) 0089-344 I Description (256 characters) 0089-344 I Description (256 characters) 0345-359 I Author (15 characters) 0360-369 I Date (10 chars for ISO date yyyy-mm-dd) 0379-389 I Synth1 (11 characters) 0401-415 I FX (15 characters) 0416 00-64 LFO Frequency 0416 00-64 LFO Saw Shape 0418 00-64 LFO Pulse Shape 0420 00-64 From Filter Env Amount 0421 00-64 From Sc B Amount 0422 00-64 From Osc B Amount 0423 00-64 From Sc B Route 0424
0050-58 00-0C Patch source (1-9) 0059-67 00-0B Patch destination (1-9) 0068-87 Name (20 characters) 0089-344 Description (256 characters) 0345-359 Author (15 characters) 0360-369 Date (10 chars for ISO date yyyy-mm-dd) 0379-389 Synthl (11 characters) 0401-415 FX (15 characters) 0416 00-64 LFO Frequency 0417 00-64 LFO Saw Shape 0418 00-64 LFO Fulse Shape 0419 00-64 From Filter Env Amount 0420 00-64 From Filter Env Route 0422 00-64 From Sc B Amount 0423 00-64 From Osc B Route 0424 00-64 From LFO Amount
0059-67 I 00-0B Patch destination (1-9) 0068-87 I Name (20 characters) 0088 I 00-10 Category 0089-344 Description (256 characters) 0345-359 Author (15 characters) 0360-369 Date (10 chars for ISO date yyyy-mm-dd) 0379-389 Synth1 (11 characters) 0401-415 FX (15 characters) 0401-415 FX (15 characters) 0416 00-64 LFO Frequency 0417 00-64 LFO Triangle Shape 0418 00-64 LFO Pulse Shape 0420 00-64 From Filter Env Amount 0420 00-64 From Sc B Amount 0422 00-64 From Osc B Amount 0423 00-64 From LFO Amount
0068-87 Name (20 characters) 0088 00-10 Category 0089-344 Description (256 characters) 0345-359 Author (15 characters) 0360-369 Date (10 chars for ISO date yyyy-mm-dd) 0360-369 Synth1 (11 characters) 0390-400 Synth2 (11 characters) 0401-415 FX (15 characters) 0401-415 FX (15 characters) 0416 00-64 LFO Frequency 0417 00-64 LFO Saw Shape 0418 00-64 LFO Triangle Shape 0419 00-64 From Filter Env Amount 0420 00-64 From Sc B Amount 0422 00-64 From Osc B Route 0423 00-64 From Sc B Route 0424 00-64 From LFO Amount <
0088 1 00-10 Category 0089-344 1 Description (256 characters) 0345-359 1 Author (15 characters) 0360-369 1 Date (10 chars for ISO date yyyy-mm-dd) 0379-389 1 Synth1 (11 characters) 0390-400 1 Synth2 (11 characters) 0401-415 1 FX (15 characters) 0416 1 00-64 LFO Frequency 0417 1 00-64 LFO Triangle Shape 0418 1 00-64 LFO Pulse Shape 0420 1 00-64 From Filter Env Amount 0421 1 00-64 From Osc B Amount 0423 1 00-64 From Osc B Route 0424 1 00-64 From LFO Amount
0089-344 I Description (256 characters) 0345-359 I Author (15 characters) 0360-369 I Date (10 chars for ISO date yyyy-mm-dd) 0379-389 I Synth1 (11 characters) 0390-400 I Synth2 (11 characters) 0401-415 I FX (15 characters) 0416 I 00-64 LFO Frequency 0417 I 00-64 LFO Saw Shape 0418 I 00-64 LFO Pulse Shape 0420 I 00-64 From Filter Env Amount 0421 I 00-64 From Osc B Amount 0423 I 00-64 From Osc B Route
0345-359 Author (15 characters) 0360-369 Date (10 chars for ISO date yyyy-mm-dd) 0379-389 Synth1 (11 characters) 0390-400 Synth2 (11 characters) 0401-415 FX (15 characters) 0416 00-64 LFO Frequency 0417 00-64 LFO Triangle Shape 0418 00-64 LFO Pulse Shape 0420 00-64 From Filter Env Amount 0421 00-64 From Osc B Amount 0423 00-64 From LFO Amount
0360-369 Date (10 chars for ISO date yyyy-mm-dd) 0379-389 Synth1 (11 characters) 0390-400 Synth2 (11 characters) 0401-415 FX (15 characters) 0416 00-64 LFO Frequency 0417 00-64 LFO Saw Shape 0418 00-64 LFO Pulse Shape 0420 00-64 From Filter Env Amount 0421 00-64 From Osc B Amount 0423 00-64 From Osc B Route 0424 00-64 From LFO Amount
0379-389 Synth1 (11 characters) 0390-400 Synth2 (11 characters) 0401-415 FX (15 characters) 0416 00-64 LFO Frequency 0417 00-64 LFO Saw Shape 0418 00-64 LFO Triangle Shape 0419 00-64 From Filter Env Amount 0420 00-64 From Filter Env Route 0421 00-64 From Osc B Amount 0423 00-64 From Osc B Route 0424 00-64 From LFO Amount
0390-400 Synth2 (11 characters) 0401-415 FX (15 characters) 0416 00-64 LFO Frequency 0417 00-64 LFO Triangle Shape 0418 00-64 LFO Pulse Shape 0419 00-64 From Filter Env Amount 0420 00-64 From Sc B Amount 0421 00-64 From Osc B Route 0423 00-64 From LFO Amount
0401-415 FX (15 characters) 0416 00-64 LFO Frequency 0417 00-64 LFO Saw Shape 0418 00-64 LFO Triangle Shape 0419 00-64 LFO Pulse Shape 0420 00-64 From Filter Env Amount 0421 00-64 From Sc B Amount 0423 00-64 From Osc B Route 0424 00-64 From LFO Amount
0416 I 00-64 LFO Frequency 0417 I 00-64 LFO Saw Shape 0418 I 00-64 LFO Triangle Shape 0419 I 00-64 LFO Pulse Shape 0420 I 00-64 From Filter Env Amount 0421 I 00-64 From Sc B Amount 0422 I 00-64 From Osc B Amount 0423 I 00-64 From Osc B Route 0424 I 00-64 From LFO Amount
0417 00-64 LFO Saw Shape 0418 00-64 LFO Triangle Shape 0419 00-64 LFO Pulse Shape 0420 00-64 From Filter Env Amount 0421 00-64 From Filter Env Route 0422 00-64 From Osc B Amount 0423 00-64 From Osc B Route 0424 00-64 From LFO Amount
0418 00-64 LFO Triangle Shape 0419 00-64 LFO Pulse Shape 0420 00-64 From Filter Env Amount 0421 00-64 From Filter Env Route 0422 00-64 From Osc B Amount 0423 00-64 From Osc B Route 0424 00-64 From LFO Amount
0419 00-64 LFO Pulse Shape 0420 00-64 From Filter Env Amount 0421 00-64 From Filter Env Route 0422 00-64 From Osc B Amount 0423 00-64 From Osc B Route 0424 00-64 From LFO Amount
0420 00-64 From Filter Env Amount 0421 00-64 From Filter Env Route 0422 00-64 From Osc B Amount 0423 00-64 From Osc B Route 0424 00-64 From LFO Amount
0421 00-64 From Filter Env Route 0422 00-64 From Osc B Amount 0423 00-64 From Osc B Route 0424 00-64 From LFO Amount
0422 I 00-64 From Osc B Amount 0423 I 00-64 From Osc B Route 0424 I 00-64 From LFO Amount
0423 00-64 From Osc B Route 0424 00-64 From LFO Amount
0424 00-64 From LFO Amount
0425 00-64 From LFO Route
0426 00-64 To Osc A Frequency
0427 00-64 To Osc A PW
0428 00-64 To Osc B Frequency
0429 00-64 To Osc B PW
0430 00-64 To Filter
0431-495 Reserved for Seq Track 1 (64 notes)
0496-559 Reserved for Seq Track 2 (64 notes)
0560-598 Not used

-- 0599 | F7 End of sysex

