

AM Music Technology

Pro SoloVst

1. Overview

The *AM Music Technology Pro SoloVst* virtual instrument reproduces the monophonic analog synthesizer from the early 1970's *ARP Pro Soloist*.

The sound engine of the Pro SoloVst is a software emulation of the real analog algorithms used inside the original instrument: VCO, resonators, filters, VCF, VCA and analog effects.

So you can hear and feel analog like warm sounds coming out from a set of 30 voices corresponding to the presets of the synthesizer.



The Pro SoloVst implements the same user controls that you can find in the real instrument, like switches, slides, knob and aftertouch. Furthermore there is also a few set of new controls, like pitch bend, modulation wheel and expression pedal.

Any configuration of the synthesizer is storable in up to 128 programs and can be reloaded through midi program change.

All the controls can be handled through midi control change messages (see midi implementation chart par. 5).

2. How to install

VST for Windows

The Pro SoloVst is a virtual instrument compatible with the VST platform by Steinberg™. This means that you must have a VST host installed on your computer.

The installation procedure is quite simple. First of all extract the dll file from the zip file to the VST plug-in folder on your PC.

For instance, if you use Steinberg Cubase, the standard plug-in folder is:

```
C:\Program Files\Steinberg\VstPlugins
```

Anyhow, refer to the VST host documentation to know about the VST plug-in folder.

At this point you can launch the VST host application and start a “plug-in rescan” procedure. This procedure should be described in the VST host documentation.

The Pro SoloVst is now installed and ready to be played.

Once again, refer to the VST host documentation to understand how to open it and make it work.

AU for Mac OS X

The Audio Unit installation procedure is similar to the VST one.

After having decompressed the zip file, you should get the prosolovst.component package. Copy the package in the following folder:

```
username/Library/Audio/Plug-Ins/Components
```

Now the Pro SoloVst AU is ready to be played. Launch the host (i.e. GarageBand) and load the plug-in.

Apple™ provides any kind of detailed information on this procedure.

3. Voice preset list

The Pro SoloVst fully reproduces the *ARP Pro Soloist* behavior on your computer. It has the same presets, effects and controls plus something else (see par 4 and 5). Here is shows the list of presets.

Upper bank		Lower Bank	
#	Preset	#	Preset
1	Bassoon	16	Buzz Bassoon
2	English Horn	17	Sax
3	Oboe	18	Space Reed
4	Clarinet	19	Telstar
5	Flute	20	Song Whistle
6	Tuba	21	Noze
7	Trombone	22	Pulsar
8	French Horn	23	Comic Wow
9	Trumpet	24	Mute Trumpet
10	Cello	25	Steel Guitar
11	Violin	26	Harpsichord
12	Bass	27	Space Bass
13	Piano	28	Steel Drum
14	Banjo	29	Country Guitar
15	Fuzz Guitar I	30	Fuzz Guitar II

4. Controls

The list of Control Changes is shown in the following table:

NR	CC	Range	Name	Description
1	07h	0 – 127	Level	Level of the output signal
2	4ah	0 – 127	Brilliance	Brilliance of the voice
3	46h	0 – 127	Effect Amount	Corresponds to the Touch Sensivity of the original Pro Soloist
4	41h	0, 127	Portamento Switch	Enables the Portamento effect
5	05h	0 – 127	Portamento Rate	Set Portamento Rate. The Portamento Switch parameter must have a value of "1" to enable the portamento effect
6	10h	0, 64, 127	Keyboard Octave Transpose	Set keyboard transposition
7	47h	0 – 30	Voice	Also 1ah (upper/lower bank selector) and 1bh (voice selector) CC can be used to switch from one voice to another
8	12h	0, 127	Repeat Switch	Enables the Repeat effect
9	4ch	0 – 127	Vibrato/Repeat Speed	Sets the rate of Vibrato and Repeat effect
10	14h	0, 127	Bend Effect	Allow the Effect controller to control pitch bend.
11	15h	0, 127	Wow Effect	Allow the Effect controller to control Wow
12	16h	0, 127	Growl Effect	Allow the Effect controller to control the amount of Growl
13	17h	0, 127	Brilliance Effect	Allow the Effect controller to increase Brilliance
14	18h	0, 127	Volume Effect	Allow the Effect controller to increase output level
15	19h	0, 127	Vibrato Effect	Allow the Effect controller to control the amount of vibrato
16	44h	0, 127	Legato	0: a keyboard trigger will be generated each time a new key is depressed on the keyboard. 127: a trigger will be generated only when the first key is pressed (Single Trigger).
17	11h	0, 64, 127	Note Priority	0: Low Note Priority (Pro Soloist mode) 64: High Note Priority 127: Last Note Priority
18	0bh	0 – 127	Expression	Level of the output signal controlled by the expression pedal

5. Midi Implementation chart

Function	Transmitted	Recognised	Remarks
Basic Channel	No	1-16	Omni mode. The midi receive channel is selectable on Vst Host
Note Number	No	0-127	
Velocity note on	No	No	
Velocity note off	No	No	
Aftertouch	No	Yes	Channel aftertouch
Pitch Bend	No	Yes	
Mod Wheel	No	Yes	Same function as aftertouch
Expression Pedal	No	Yes	
Sustain Pedal	No	No	
Control Changes	No	Yes	See par 4
Program change	No	0-127	
All note off	No	Yes	