

# **RolandJV1080**

Jon Rocatis

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<b>COLLABORATORS</b>
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	<i>TITLE :</i> RolandJV1080	
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>
WRITTEN BY	Jon Rocatis	August 5, 2022
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<b>REVISION HISTORY</b>
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NUMBER	DATE	DESCRIPTION	NAME

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# Chapter 1

## RolandJV1080

### 1.1 Roland JV-1080 Plug-In

- Apache PlugIn -

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XXXX XXX XX XXXX XXXX XXXX v1.238
```

by Jon Rocatis

Design by Simon Holm

**What is this?** What is it all about?

**Requirements** Which computers can this program run on?

**Menus** What's in the menu?

**Windows** Description of the many windows

**Expansion boards** How to add support for more expansion boards

**License** What you may and may not do

**Disclaimer** Warranty? No warranty

**Registration** How to register

**Contacting Author** How to reach author if you got something to say

**Technical stuff** Techno babble..

**Future** What will the future bring?

**Known bugs** Bugs? What bugs!?

**Thanks...** The author wishes to thank...

**Program History** Description of each release

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## 1.2 JV-1080/Tone Select/Edit

This window determines which Tone you will see in the windows and which Tones will be affected by changes made by you.

The currently selected Tone which you see in the windows is always edited.

By using the "All/None" function you can quickly edit all the Tones or just the selected one.

## 1.3 JV-1080/Windows

Click on a button to get info on that particular window. All the windows have context sensitive help so you can just press the <HELP> button to get help on the currently active window.

Main window

Patch bank window

Patch common window

Patch Effects window

Settings window

## 1.4 JV-1080/Registration

To register the JV-1080 PlugIn module please fill in the form below and send it to me together with the cash.

Please make sure that your money can't be seen through the envelope!

The registration fee is 30 USD. You will receive a disk containing your personal keyfile together with the latest version of both Apache and the JV-1080 PlugIn module.

You can also choose to receive your keyfile by E-mail only and just pay 25 USD. You will receive your keyfile quicker this way and save me the hassle with preparing and sending disks.

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O \

Registration form for the  
JV-1080 Apache PlugIn Module

To: Jon Rocatis

Askergate 1, lejl. 108

0475 Oslo

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NORWAY

Name:

\_\_\_\_\_

Street:

\_\_\_\_\_

ZIP, City:

\_\_\_\_\_

Country:

\_\_\_\_\_

E-mail:

\_\_\_\_\_

Amiga Setup:

(OS/CPU/ \_\_\_\_\_)

RAM/HD etc)

\_\_\_\_\_

\_\_\_\_\_

I want my keyfile via E-mail and get a \$5 discount: YES/NO

I have read the Copyright note and the license details and do agree.

\_\_\_\_\_

(City, Date) (Signature)

PS: Please make sure that I can read what you write!

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## 1.5 JV-1080/Introduction

The Roland JV-1080 Apache Plug-In

Welcome! This PlugIn module gives you total control and easy access to all of the JV-1080's features. Creating your own sounds have never been easier or as much fun!

You are able to store patches on your harddisk - you are no longer limited to work with max. 128 patches.

This program is an Apache PlugIn so you need to have Apache installed. See [Requirements](#)

This program is ShareWare. In the evaluation version you cannot save your patches or patchbanks. By [registering](#) you will not only support the author and further development of the program but also get a keyfile that will enable the save functions.

## 1.6 JV-1080/Requirements

First of all: This program requires Apache to run. Apache acts like a home for plug-in modules like this.

Apache can be found on Aminet in mus/midi/apache.lha

Other requirements:

- Kickstart 2.0 or better.
- MUI v3.3 or better. (Magic User Interface)
- At least 1MB of RAM. More is recommended.
- A MIDI interface and a Roland JV-1080 synth module are required if you want to hear the sounds you create :)

## 1.7 JV-1080/Menu

[Project Patch/Tones Miscellaneous](#)

## 1.8 Project Menu

Project

Load Patch... See [Main Window](#)

Save Patch... See [Main Window](#)

Send Sends a patch. See [Main Window](#)

Receive Receives a patch. See [Main Window](#)

Iconify Iconifies the PlugIn.

Help Opens the AmigaGuide help.

About Plug-In Shows information about this PlugIn.

Quit Quits the PlugIn. If you have any unsaved changes you will get a chance to abort quitting.

## 1.9 Patch/Tones Menu

Patch/Tones

Tone 1 Determines which Tone you will see in the windows.

2 -

3 -

4 -

All/None With this you can select all Tones for editing or just the current Tone. See also [Tone Select Window](#)

Patch List Opens the [main window](#)

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Patch Common Opens the [Patch Common window](#)

Patch Effects Opens the [Patch Effects window](#)

Patch Bank Opens the [Patch Bank window](#)

Tone Control Opens the [Tone Control window](#)

Tone Wave Opens the [Tone Wave window](#)

Tone LFO Opens the [LFO window](#)

Tone Pitch Opens the [Pitch window](#)

Tone TVF Opens the [TVF window](#)

Tone TVA Opens the [TVA window](#)

All Opens ALL the windows. This may take a while depending on the speed of your system.

Tone Tool Opens the [Tone Tool window](#)

Patch/Tone Strip Opens the control strip window. This is a window that gives you fast and easy access to all the other windows.

## 1.10 Miscellaneous Menu

Miscellaneous

Reset Paths In the [settings window](#) you can set paths up for your patches and patch bank. The filerequesters remembers where you last were, so if you have loaded a patch from ex. DF0: and your normal path is somewhere on your HD it can be quite irritating to click through thousand of drawers to get back.

Selecting "reset paths" will make the filerequesters use the paths you've set up in the settings window again.

Gadget Help... Opens the gadget help window. Place the mouse-pointer over a gadget you wanna know more about. This is mostly to explain what effect the different gadgets have over the sound.

Settings... Opens the settings window.

Save Window Config Saves information about the currently open windows. The next time you start the JV-1080 PlugIn all the windows currently open will open automatically.

MUI... Opens the MUI settings program, so you can change the user interface to suit your taste..

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## 1.11 JV-1080/Thanks

I thank Simon Holm for designing the user interface and doing a lot of tedious testing + letting me create some truly horrible sounds on his JV-1080! :)

Thanks for typing the waveform names for the expansion modules goes to:

SR-JV80-01 Pop - Unknown (no waveform type information)

SR-JV80-02 Orchestral - Gary Goldberg.

SR-JV80-03 Piano - Unknown (no waveform type information)

SR-JV80-04 Vintage - Nico Theuns.

SR-JV80-05 World - Unknown (no waveform type information)

SR-JV80-06 Dance - Weber Markus.

SR-JV80-07 Super Sound Set - Unknown

SR-JV80-08 60 and 70's - Unknown

Also thanks to all the betatesters and to Jan Krutisch for all his nice ideas and suggestions.

Thanks to Stefan Stuntz for MUI. Great stuff - just keeps getting better and better!

## 1.12 JV-1080/Disclaimer

Disclaimer

No warranty, either express or implied, is made with respect to the fitness or merchantability of this program.

Jon Rocatis (referred to as "the author"), reserves the right to not develop any future versions of this program.

The author will try to make a good faith attempt at correcting any problems if any are discovered, but is in no way required, nor bound to correct them.

The author neither assumes nor accepts any responsibility for the use or misuse of these programs. He will also not be held liable for damages due to loss of profit or any other damages arising out of the use, or inability to use this program.

The author will not be liable for any damage arising from the failure of this program to perform as described, or any destruction of other programs or data residing on a system attempting to run the programs. The user of this program uses it at his or her own risk.

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## 1.13 JV-1080/Main window

This is the main window. This is the place where you create, save and load your patches. When you close this window you also close the whole JV-1080 PlugIn module itself - all windows will be closed automatically. If you have any unsaved changes you will get a chance to regret quitting.

What's in the window

The main listview gadget contains your patches. When you select a patch the patch will be send via the MIDI port to the JV-1080. With the string gadget below you can change the name of the patch. Only the characters that are displayable in the JV-1080's display can be entered here..

If a patch has been changed it will get a "\*" in front of it's name.

· Load

Brings up a filerequester where you can select a patch to load. The chosen patch will be loaded into the currently selected patch.

You can also load raw system exclusive dump patch files from programs like SysExpert.

· Save

Saves the currently selected patch. Brings up a filerequester where you can specify the filename. See also [Settings window](#)

· New & Load

Creates a new patch and opens a filerequester where you choose the patch to load.

· Save \*

Saves all the patches that are marked as changed.

· New

Creates a new patch. The patch will be a copy of the currently selected patch.

· Remove

Removes the currently selected patch.

· Send

Sends the currently selected patch to the JV-1080. Only useful if you don't use the real time updating feature.

· Receive

Receives a patch from within the JV-1080's user patch bank. The patch to receive is determined by the current patch's number.

How to set the Patch #

Double clicking on an entry in the listview will bring up a window where you can edit the patch's number. This is the user patch number in the JV-1080.

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## 1.14 JV-1080/Settings window

The settings window is where you can edit the functionality and look of the JV-1080 PlugIn.

What's in the window

- Patch Path

Here you can specify where you want your patches to be.

- Patch Bank Path

Here you can specify where you want your patch banks to be.

- File postfix

The contents of this string gadget will be added to all the files you save. Ex. if you have entered .JV-1080 here and you save a patch with the name MegaBass the file will be called MegaBass.JV-1080.

[Not implemented yet]

- Unit #

This is the device unit number of your JV-1080.

- Expansion modules

This is the place where you can configure which expansion modules you have in your JV-1080 and where. Press the popup-gadget and a listview gadget pops up showing you the available expansion modules. Select a expansion-module by double-clicking on an entry. Now you will be able to select the waveforms in the **wave window** just as you select one of the built-in waveforms.

Note: You'll have to save the settings, quit and restart the JV-1080 module before these changes will have any effect. Sorry about that - maybe I'll do something about it later..

- Listview Titles

With these checkmark gadgets you can change the look of the titles in the listview gadgets. You can mix the different text attributes as you please. Ex. Bold underline is perfectly okay..

- Show. With this one you can enable or disable the titles.

- Bold. The titles will be in bold.

- Italics. The titles will be in bold.

- Underline. The titles will be underlined.

- Control Strip

The control strip is a window where you can open any of the windows in this PlugIn. It gives you a fast way to open (or activate) the many windows. You can change the look of the window:

- Equal Size Buttons. If checked all the buttons in this window will be the same size.

- Horizontal/Vertical. Specifies how you want the layout of the window.

The Save, Use and Cancel buttons acts like in any other preferences window.

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## 1.15 JV-1080/Patch Bank window

This is the patch bank window.

What's in the window

The main listview gadget contains your patch bank. In the window's title bar you can see how many entries in the patch bank that are currently used.

· Load Bank

Loads a patch bank from disk. Opens filerequester.

· Save Bank

Saves a patch bank to disk. Opens a filerequester.

· Load Patch

Brings up a filerequester where you can select one or more patches to load. The loaded patch will replace the currently active entry.

If you load more than one patch they will be placed one after the other overwriting any existing patches in your bank.

· Save Patch

Saves the currently selected patches. Brings up a filerequester.

If only one patch is selected you can specify the file name and destination directory of the patch. If more than one patch is selected you just select destination directory and all the patches will be saved there with their current names as the file name.

· Store Current

Pressing this button will copy the currently selected patch in the **Main window** to the currently selected entry in this, the patch bank window.

· Remove

Removes the currently selected patch(es). If more than one patch is selected a confirmation requester pops-up enabling you to abort the removal.

· Send

Pressing this button will send the whole patch bank to the JV-1080.

Only the used entries will be send thus saving transfer time.

· Receive

Pressing this button opens a window where you enter the desired range of patches to receive from the user patch memory in the JV-1080. The default is all the user patches in the JV-1080. Hitting the okay button will start the transfer.

Drag'n'drop

You can use drag'n'drop to rearrange the order of the patches in the

listview. You can also drag patches from the main window to the patch bank and vice versa.

#### Renaming of patches

You can rename a patch in the patch bank by double-clicking on the patch you want to rename. A window pops up where you can type the new name. Double-clicking on an empty entry has no effect.

Instead of double-clicking you can also press <RETURN> (well, this depends on how your MUI is set up)

### 1.16 JV-1080/Patch Common window

In this window you can change common patch parameters.

Note that you can also change the patch name in the [main window](#)

### 1.17 JV-1080/Patch Effects window

The effect-windows that pop-up are not working as they are supposed to at the moment so don't rely on them. The stuff in the main Patch Effects window is okay though..

### 1.18 JV-1080/Tone Control window

### 1.19 JV-1080/Wave window

In the Wave window you can edit wave-parameters for a Tone.

If you have any expansion boards in your JV-1080 you must specify in which banks you have them. This is done in the [settings window](#)

### 1.20 JV-1080/LFO window

This is the window where you control the two LFO's. Low Frequency Oscillators.

### 1.21 JV-1080/Pitch window

This is the pitch window where you edit parameters that controls the pitch. The big gadget at the bottom controls the pitch [envelope](#)

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## 1.22 JV-1080/TVF window

This is the TVF window where you edit parameters that controls the TVF. The big gadget at the bottom controls the **envelope**

## 1.23 JV-1080/TVA window

This is the TVA window where you edit parameters that controls the TVA. The big gadget at the bottom controls the **envelope**

## 1.24 JV-1080/Tone Tools window

This is the Tone Tools window. With this window you can copy parts of a Tone to 1 or more Tones within the same patch. In the source group you select which Tone to copy FROM.

With the checkmark gadgets on the right you select which Tones will be affected by your operations.

The section group controls which sections of a Tone will be affected by your operations. The invert button will invert your selections and the clear button will clear your selections.

The Copy button will copy your selected sections from the selected source Tone to the selected destination Tones. The window will close after the operation is completed.

The Reset button works the same way as the copy button but instead of copying sections it resets the sections to that of the default patch.

The cancel button closes the window and leaves your patch intact.

## 1.25 JV-1080/Contacting author

Author

If you have any comments, ideas, criticism or bug reports, don't hesitate to get in touch. E-mail preferred. If you are reporting bugs please tell me the version numbers for both Apache and the PlugIn.

Jon Rocatis - SideFX / Software Development

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E-mail: [jon@funcom.com](mailto:jon@funcom.com)

Snail-mail: Jon Rocatis

Askergate 1, lejl. 108

0475 Oslo

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## NORWAY

If you have anything to say/discuss about the user interface you can also write to the guy who actually did all of the original design:

Simon Holm - SideFX / Software Development

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E-mail: sh@eogs.dk

## 1.26 JV-1080/Technical stuff

This JV-1080 PlugIn was developed using SAS/C v6.56 on an Amiga 4000/040.

The source code is about 14000 lines long and takes up approx. 420K!

## 1.27 JV-1080/Known Bugs

No known bugs. Well, yet.. If you find any please tell **me** about them!

## 1.28 License

### Licence Agreement

This, the Roland JV-1080 Apache PlugIn module, is offered to you under the concepts of ShareWare.

You can use it for an evaluation period of up to 4 weeks without paying any charge. If you are going to use the PlugIn module after the evaluation period, you **MUST register**.

By copying, distributing and/or using the program you indicate your acceptance of this license to do so, and all its terms and conditions.

You may:

- Install and use this software for your personal use on a single microcomputer
- Make verbatim copies of the original distribution archive without any files being omitted/added/changed.
- Distribute those copies of the software if **NO** charge is asked for, except for the media.
- Upload the software to as many BBSes as you like.

You may NOT:

- Copy and/or distribute this program without the accompanying documentation and other additional files that come with the original distribution archive.
  - Alter the software and/or the accompanying files in any way.
-



- Copy and/or distribute modified version of this program.
- Decompile, disassemble, translate, convert to another programming language or otherwise reverse engineer the software.
- Grant sublicences, leases or other rights in the software.
- Rent the software to others.

## 1.29 JV-1080/Future plans

I have some ideas for future versions:

- A better file format for patch banks that doesn't save all the unused entries in the patch bank.
  - Making the effects-windows work..
- ..add your own ones here :)

## 1.30 JV-1080/Expansion Boards

Currently supported expansion boards:

SR-JV80-01 Pop

SR-JV80-02 Orchestral

SR-JV80-03 Piano

SR-JV80-04 Vintage

SR-JV80-05 World

SR-JV80-06 Dance

SR-JV80-07 Super Sound Set

SR-JV80-08 60's and 70's Keyboards

If you have another expansion board it is quite easy (although tedious) to add support for that one too!

Take a look at the file "Exp.Orchestral". It's a normal ASCII text file.

It contains all the waveforms for the Orchestral board. If you have, let's say, the Dance expansion board you create a file called Exp.<name> where <name> is the name you want to use in the wave window's waveform selection gadget.

The first line must have a special format:

```
WAVES <#waves> <ID>
```

The <#waves> is simply the number of waveforms in the expansion board.

The <ID> is the number of the expansion board. Ex. Piano is #3..

The rest of the file is the waveform names. The first character can be either 'L', 'O', 'M'. Looping, Oneshot or Menu. If you don't know what type a waveform is type '-'

Happy typing! :)

If you create a new expansion board file please send it to me so that I can add it for the next release. You will of course be credited :)

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## 1.31 JV-1080/Envelope Editor

The TVA, TVF and Pitch windows features a special gadget: The envelope gadget. This gadget allows you to edit an envelope graphically with your mouse.

How does it work?

If you click the left mouse button over one of the knobs (and keep it pressed you can drag the knob around). This functions just like when you are dragging icons on the Workbench.

You can fine-adjust a knob by clicking outside the knob. Clicking to the left will move the knob left by 1. Clicking above the knob will move the knob up by 1 etc. etc..

## 1.32 JV-1080/History

Program history - a description of each release. Note: I use

C='s definition of version numbers. Ex. 1.10 is newer than 1.5!

In fact every time I make a change in the sourcecode and I compile this PlugIn the version number gets increased by one!

I use the following 3 letter IDs to describe changes:

FIX - Bug fix

NEW - New feature

CHG - Change in behaviour from previous versions

History: (Newest on top)

v1.238 - 2 Sep 1996

- FIX. Envelopes: You could fine adjust the level of the last knob in the TVA window..

- NEW. Envelopes: Visual indicator of which knob you're adjusting. The corresponding text gadget will light up.

v1.237 - 21 Jul 1996

- FIX. The "levels" in the pitch envelope now has a max of +63 instead of +64 (which of course caused the JV-1080 to complain).

- NEW. You can now remove more than one patch at a time in the patch bank window.

- NEW. Patch Bank window has multi-patch-save if more than one patch is selected.

- NEW. Loading of patches now supports multi-selection! Both the main window and the patch bank window

- FIX. If you played around with MUI-prefs and then tried to use a

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filerequester things would blow up!

- FIX. If you deleted expansion boards in the prefs window they didn't disappear for real - it only looked that way!
- NEW. Added some more gadget-help texts. Thanks Jan!
- NEW. New layout in tone select window. Horizontally placed selection buttons just like on the JV-1080 itself and gives the window a bigger dragbar as a side effect.
- NEW. You can now drag patches from the patch bank window to the patch list (main) window. Only one at a time though :-\
- NEW. You can now rename patches in the patch bank window. Double click on an entry and a window pops up..
- NEW. Hotkey on the "Remove" button in the patch bank window.

v1.178 - 18 Jun 1996

- NEW. Added waveform files for 4 more expansion boards.
- NEW. Envelope-value readouts in Pitch, TVA and TVF windows.
- NEW. New window just for selecting which Tone you are looking at and which Tones will be affected by changes. You can now edit ex. Tone #1 and Tone #3 at the same time.
- CHG. The fade-mode selector in the LFO window is now a cycle gadget instead of a slider
- FIX. There was some empty space at the top of the "misc" group in the LFO window. Removed..
- NEW. Waveform names for the "Dance Expansion module" included.

v1.130 - 26 May 1996

- FIX. Fixed the MIDI updating on envelopes when fine adjusting knobs.
- FIX. The TVA and TVF envelopes now starts at the bottom instead of at the middle of the envelope..
- NEW. The TVF and Pitch envelopes now have a horizontal line at the very end of the envelope..
- FIX. When receiving a patch the name of the patch in the Main Window and the Patch Common window wasn't updated..

v1.125 - 10 May 1996

- NEW. Graphical editing of envelopes
  - CHG. Moved some gadget-groups around in the LFO window
  - FIX. Moving some sliders in the ToneCtrl window didn't mark the patch as changed.
  - NEW. Some more error requesters in program, mostly to support the fact that Apache not necessarily owns the MIDI port
  - NEW. Error requesters instead of printing to console (normal window)
-

- CHG. Print stuff in the menu removed
- NEW. Some internal changes to support the changes in the Apache/PlugIn communication scheme.
- NEW. This PlugIn will now ask user about quitting if user tried to quit Apache instead of just quitting the PlugIn.
- CHG. The main window is now the last one to open.

v1.19 - 2 Apr 1996

- NEW. Compiled for 68000 instead of 68020
- NEW. Waveform list for the Vintage expansion board
- NEW. Drag'n'drop between entries in the patch bank window
- NEW. Drag'n'drop from main window to patch bank window
- CHG. Main window will always be the active one at startup

v1.0 - 17 Mar 1996

First release.

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