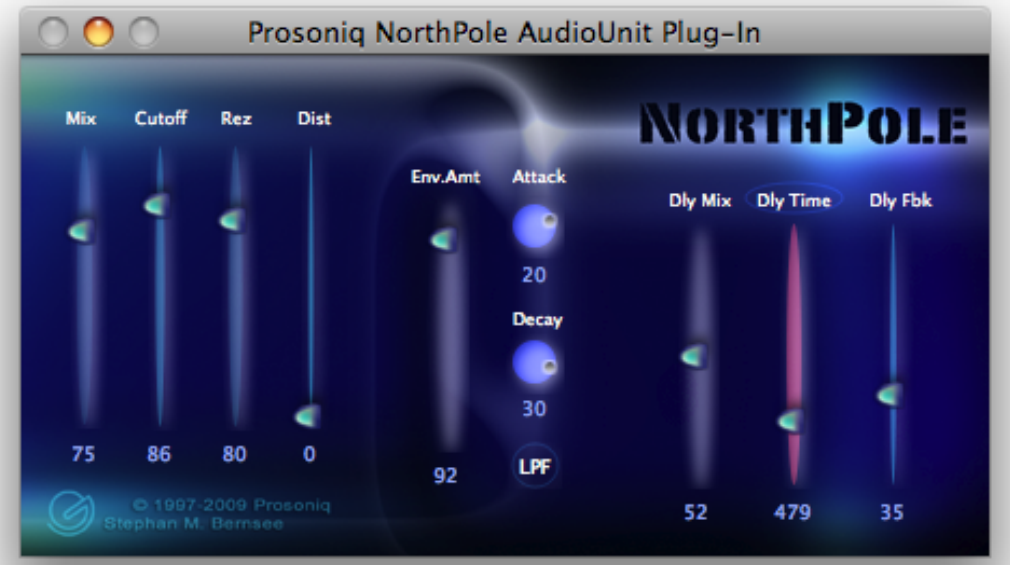
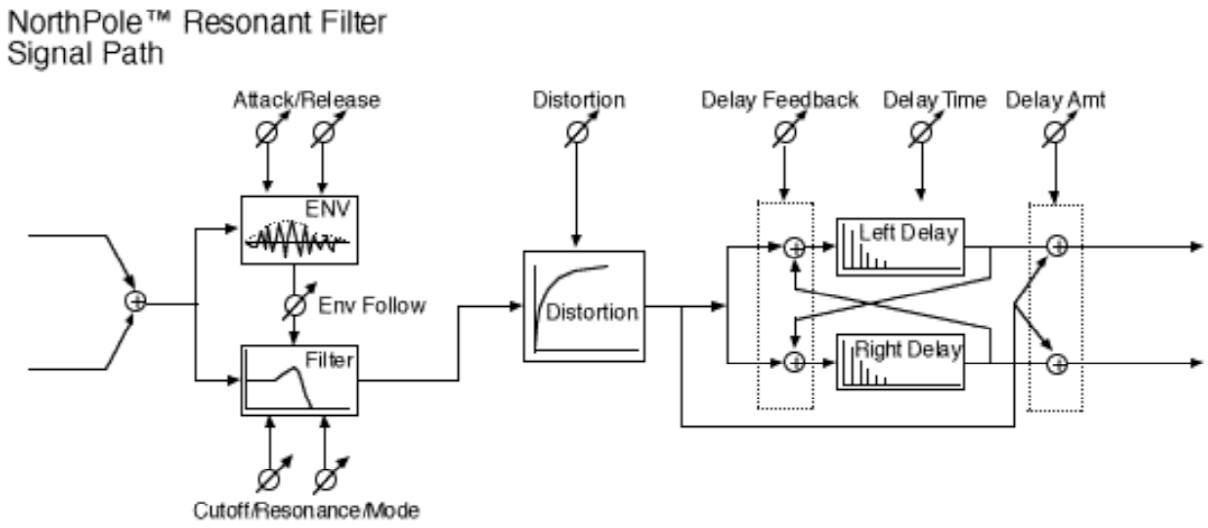
# Prosoniq NorthPole™ - Virtual Analog Filter

**For AudioUnit compatible host applications**




**What is it?**
NorthPole™ is a free effects plug in for AudioUnit compatible applications on the Macintosh. It adds a fully programmable virtual analog synthesizer filter with resonance, envelope follower and an integrated post-filter digital delay to your audio production environment.

**Features**
This free plug in equips your AudioUnit environment with a fully programmable resonant filter. In short, you can send any of your audio tracks through this 'virtual analog' effects device to either create spezial effects or to simulate the behaviour of an analog 4-pole synthesizer filter.




It has the following specifications:

- 24dB/Octave (4 pole)
- variable Cutoff + Resonance
- Lowpass/Bandpass switchable
- Envelope Follower with adjustable sensitivity
- Envelope attack/release times
- Adjustable analog distortion
- Adjustable digital delay after filter with time, mix and feedback

This plug in is completely free and works without limitation.

**New in 1.01:**
Repeatedly clicking on the "Dly Time" text area directly above the delay time slider sets the delay time to the time interval between the clicks. This "tap tempo" feature comes in handy when adjusting the tempo of the delay

**New in 1.02:**
NorthPole is now using a true stereo filter algorithm.

**New in 1.03 (25-05-2009):**
Updated code that handles the Carbon UI.

**New in 1.1 (22-06-2009):**
Speed improvements (approx. 2x faster than previous versions)
Enhanced compatibility with MacOS X 10.5.7
Compatibility with Carbon-only hosts such as DSP Quattro

**New in 1.11 (02-07-2009):**
More speed improvements
NorthPole now supports mono->mono and mono->stereo channel configurations

**New in 1.12b1 (18-08-2009):**
Does no longer rely on event loop to trigger screen updates (fixes compatibility problems with Sound Studio 3)
Uses Cocoa-over-Carbon window UI approach on hosts that do not support Cocoa UIs

**New in 1.12b2 (20-08-2009):**
Fixed problem with Peak 6
Fixed missing save/restoreGraphicsState calls

**New in 1.20 (26-08-2009):**
Changed UI layout to be compatible with Live 8.05
Fixed initialization and Cocoa namespace bugs
Added backwards compatibility with Logic 7

**New in 1.21 (28-08-2009)**
On Carbon-only hosts clicking the Cocoa window activates the underlying Carbon window as well
On Carbon-only hosts using regular (ie. non-floating palette) windows for displaying the plug in user interface, key events are now handled correctly
On Carbon-only hosts holding down the "control" key while opening the plug in editor now displays the user interface in a separate window.

**New in 1.22 (08-11-2010)**
Ported everything to 10.6 and Xcode 3.2.4. Fixed problem with Carbon/Cocoa overlay. Cleaned up code.

**New in 1.23 (10-11-2010)**
Fixed crash on MacOS X 10.5

**New in 1.24 (13-01-2011)**
Added 32/64bit Cocoa native version.

**IMPORTANT**: This plug in is freeware so please don't expect Prosoniq's distributors to provide any kind of support for it. However, feel free to send your comments via www to us at http://www.prosoniq.com and tell us how you like it.

**Installation**
All you need to do in order to use this plug in is to copy it to the appropriate plugins folder on your harddisk, usually this is /Library/Audio/Plug-Ins/Components or ~/Library/Audio/Plug-Ins/Components. After restarting your AudioUnit compatible host application, the 'NorthPole' plug in will show up in the list of modules in the effects rack.

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**System Requirements**
NorthPole™ requires a pre-installed copy of Apple Logic 8.0 or higher or any other fully AudioUnit compatible software running on an Apple PPC or Intel Mac under MacOS X 10.4 or newer.

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