

PHOENIX II

An AAX Plug-in



OPERATOR'S MANUAL

Version 1
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PHOENIX II

Phoenix II is an update of Crane Song's suite of TDM plug-ins designed to emulate the unique properties of a magnetic tape machine.

Phoenix II runs both NATIVE and DSP on Avid's PT 10 AAX format. Phoenix II -uses 32 bit floating point math and has a lower noise floor than the original release. It runs at all sample rates, 44.1K to 192K.

Designer Dave Hill has crafted this software with the same attention to detail he used to create the electronics for ATR Service's much heralded "Aria" discrete tape recorders. His intimate knowledge of analog electronics, as well as decades of experience as a recording engineer has spawned a very useful, musical suite of plug-ins. The Phoenix II process not only incorporates the nonlinear saturation characteristics created by magnetic tape itself, but also includes the interrelation of an analog tape recorder's record/reproduce electronics and equalization curves. Phoenix II is a ground-up application derived from HEDD technology, and specifically engineered and optimized for Avid's PT 10 architecture.

Phoenix II has five different tape-analog characteristics, Plug-in type is selected with a switch for easy comparison between the types, and the brightness is also selected with a switch. Gold is the position where the color is approximately flat in frequency response, with Sapphire being a brighter, and Opal being a warmer tonality. A level control determines the amount of the Phoenix II process integrated into the audio signal, and an input trim determines "how hard you hit the tape." Because the DSP process is level dependent, the input level trim control has been improved and an output trim control has been added.

The input trim can also be used to prevent clipping in the rare cases where clipping may be a problem and bringing up the level of a track for an increased amount of color. This can be useful on material that is hitting close to or at digital zero and on material that has a low recorded level. When the input trim and output trim controls are at 0dB, (no change in gain) and no tape process is being added to the sound, the plug-in is bit accurate, meaning the output exactly matches the input. The output trim control is for level matching and has a range of plus 6db to minus 6 db.

The Phoenix II contains five different flavors:

Luminescent is the most neutral sounding process of the five.

Iridescent has a similar magnetic character, but with a fatter bottom and midrange.

(This flavor is the most similar to the tape knob on HEDD-192.)

Radiant is characterized by a more aggressive compression curve

Dark Essence is even more aggressive. (The effect is a color with a wider frequency range-when used on a vocal Dark Essence can reduce sibilance problems by increasing the apparent loudness of the rest of the signal.)

Luster starts more gently than the other four processes, but becomes as aggressive as Dark Essence when the process is at full scale.



Running within Avid's AAX architecture, Phoenix is very DSP efficient. It will run approximately 27 instances of a plug-in on a single DSP chip (HD system at 44.1 kHz sample rate). This will be greatly increased in the next release

Phoenix's color is dependant on signal level, program material and sample rate. A higher sample rate results in smother sounds

The *Phoenix II* plug-in provides a wide range of choices to make your digital world sound warmer, fatter, and more analog. The plug-ins can be somewhat subtle, but the cumulative affect when used on a number of tracks can bring back the warmth and richness which only analog recording has been able to provide.

Phoenix II is multi-mono, and will work multi mono in stereo and 5.1.

As of July 2012 Phoenix II does not read Phoenix I settings, this is being working on, watch the download site for updates

System Requirements

You must have the following to run Phoenix II:

Pro Tools version 10, Windows or MAC

It does not run on any other system.

It will run native on PT10 and it will also run on the HDX card

An iLok USB Smart Key and an iLok.com account

If you do not currently own an iLok, you must purchase one in order to authorize and run Crane Song plug-ins for both authorized and demonstration mode.

An iLok can be purchased from a variety of sources, including the online store operated by Avid.

An iLok.com account. Creating an account is simple and free. Visit iLok.com for details. If you do not have one, proceed to iLok.com and set up an account

Phoenix Plug-in Registration Form and Authorization Form

Product*
Company or Organization
Your name*
Title
Address 1*
City*
State*
Zip/postal code*
Country*
Email*
ilok user ID*
Type of Work Produced* <input type="checkbox"/> Music <input type="checkbox"/> Film Post <input type="checkbox"/> TV Post <input type="checkbox"/> Radio <input type="checkbox"/> Other:
Operating System* WINDOWS <input type="checkbox"/> OSX <input type="checkbox"/>
Dealer

E-mail us at plugins@cranesong.net for a 30 day demo, we will send you a redeem code

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