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# Line 6 Echo Farm v2.2 Plug-In

Thank you for purchasing Echo Farm v2.2 for Pro Tools|HD Accel and Pro Tools|HD systems. Echo Farm v2.2 supports Windows XP and Mac OS X systems.

## What's New in Echo Farm v2.2

- Support for Pro Tools|HD Accel
- Tempo Lock feature allowing Echo Farm to automatically lock to the tempo of the Pro Tools session
- Support for D-Control
- Internal clip detection
- Support for Stereo 96 kHz sampling rate (HD Accel required)
- Support for 192k Hz sampling rate (HD Accel required)

### Information on 'Tempo Lock' Feature

Tempo Lock allows Echo Farm to automatically lock to the tempo of the Pro Tools session, even when Tempo changes occur. To engage and disengage Tempo Lock, click on the lock icon next to the Tempo section in the Echo Farm interface. Pro Tools v6.2 or higher is required to use the Tempo Lock feature.

## Known issues

### Working with 192 kHz Sessions

Tracks in sessions with a 192 kHz sampling rate are limited to mono. In addition, an HD Accel card is required for 192 kHz support.

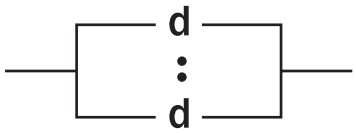
### Mono Signal Paths Differ Depending on Sampling Rate

Due to the increased processing power needed at the higher sample rates, there is a difference in the way Echo Farm processes a mono signal at 88.2/96k Hz on Pro Tools|HD and 176.4/192 kHz on Pro Tools|HD Accel.

When using Echo Farm on a mono track on Pro Tools|HD at 44.1/48 kHz and Pro Tools|HD Accel at 44.1/48 kHz or 88.2/96 kHz, a mono signal is split into two effects paths. When using Echo Farm on a mono track on Pro Tools|HD at 88.2/96 kHz and Pro Tools|HD Accel at 176.4/192 kHz, only a single effect path is present. An audible difference is most noticeable when using the Echo Farm delay models which include modulation such as Mod, Sweep, or Wow & Flutter. The difference is subtle with low amounts of modulation, but may be more audible with higher amounts of modulation.

### Echo Farm Mono Signal Paths

In the following basic mono signal path diagrams, the "d" represents the effect path, and the colon (":") between them represents interaction with the modulation phases (mod, sweep or wow & flutter).




*Mono track on Pro Tools|HD at 44.1/48 kHz or Pro Tools|HD Accel at 44.1/48 kHz and 88.2/96 kHz*


*Mono track on Pro Tools|HD at 88.2/96 kHz or Pro Tools|HD Accel at 176.4/192 kHz*

## Echo Farm Plug-In Guide

The *Echo Farm Plug-In Guide* is a PDF file on your Installer CD. It is the primary source of information on features, capabilities, and operational recommendations for Echo Farm.

## Authorizing the Echo Farm Plug-In

Echo Farm is authorized using the iLok USB Smart Key and License Card from PACE Anti-Piracy.

The iLok is similar to a dongle, but unlike a dongle, it is designed to securely authorize multiple software applications from a variety of software developers.

This key can hold over 100 authorizations for all of your iLok-enabled software. Once an iLok is authorized for a given piece of software, you can use the iLok to authorize that software on any computer.

⚠ *The iLok USB Smart Key is not supplied with your plug-in. You can use the one included with your Pro Tools|HD Core system, or purchase one separately.*

License Cards are specific to each plug-in. You will receive the appropriate License Cards for the plug-ins that you purchase. License Cards have a small punch-out plastic chip called a GSM cutout.

*For additional information about iLok technology and authorizations, see the electronic PDF of the iLok Usage Guide.*

**To authorize Echo Farm with iLok:**

**1** Insert the iLok into an available USB port on your computer.

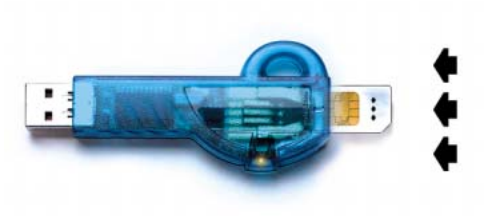
**2** Launch Pro Tools. You will be prompted to authorize any installed unauthorized plug-ins or software options.

*If you are already using a demo version of the plug-in, launch Pro Tools before you insert the iLok, then insert the iLok into any available USB port when prompted by Pro Tools.*

**3** Follow the on-screen instructions until you are prompted to insert the License Card into the iLok.

**4** Separate the GSM cutout from the larger protective card by pulling it up and out with your thumb. Do not force the cutout down with your finger.

**5** Insert the GSM cutout into the iLok. Visually verify that the metal portion of the cutout makes contact with the iLok's metal card reader.



*iLok with License Card*

**6** Follow the on-screen instructions to complete the authorization process.

**7** After the authorization has completed, remove the GSM cutout from the iLok. (If you have to remove the iLok from the computer to remove the cutout, be sure to re-insert the iLok in any available USB port on your computer when you are finished.)