ROTARY

Software User Manual

Software Version 1.0

EN 170325

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8. In the event UVI terminates this agreement due to your breach, you agree to return the original and all other copies of the software and documentation to UVI.

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B– License Activation

1. In order to use UVI Products it is required that you authorize them by registering your Serial Number on uvi.net/register, have a free iLok account (not necessarily a dongle) and install the free iLok License Manager (done automatically by UVI Workstation and Falcon installers). It is impossible to use UVI Products if they are not registered and authorized.

2. During authorization you will need to enter your name, email address and postal address which will be stored in the UVI database. UVI uses a secure SSL connection with 128-bit-encryption that meets current security standards to transmit your data over the web. For further information about UVI's handling of personal data please see: https://www.uvi.net/privacy-policy

3. The UVI Product license allows up to 3 simultaneous activations on any combination of iLok dongles and computers. Activations can be moved between devices at anytime through the iLok License Manager.

C– Protection of Software

You agree to take all reasonable steps to protect the Product and any accompanying documentation from unauthorized copying or use. You agree not to modify the Product to circumvent any method or means adopted or implemented by UVI to protect against or discourage the unlicensed use or copying of the Product.

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This agreement is effective from the date you open this package, and will remain in full force until termination. This agreement will terminate if you break any of the terms or conditions of this agreement. Upon termination you agree to return to UVI all copies of this product and accompanying documentation and destroy any other copies made.

F– Restrictions

Except as expressly authorized in this agreement, you may not rent, lease, sub-license, distribute, copy, reproduce, display, modify or timeshare the enclosed Product or documentation.

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UVI Products serial numbers labeled as "NFR" (Not For Resale) shall only be used for demonstration, testing and evaluation purposes. NFR Products may not be used for commercial purposes, and may not be resold or transferred. They are not eligible for license recovery and are exempt from update, upgrade or crossgrade offers, and cannot be purchased with or exchanged for vouchers. Furthermore, as an owner of an NFR Product, you are not entitled to promotions available for the commercial version of the Product.

H– No Support Obligation

UVI will make its best effort to support you in the event of technical difficulty with a UVI Product. However, UVI is not obligated to furnish or make available to you any additional information, software, technical information, know-how, or support.

I– Specifications and System Requirements

All technical specifications of UVI Products provided are intended to be estimates or approximations. Due to numerous variables no guarantees of compatibility or performance can be made. All such specifications shall be in writing. End-User is solely responsible for, prior to purchase, ensuring that End-User's devices are compatible and meet the system requirements for UVI Products, and that the applicable UVI Products meet End-User's requirements.

This EULA is governed by the laws of France.

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Introduction
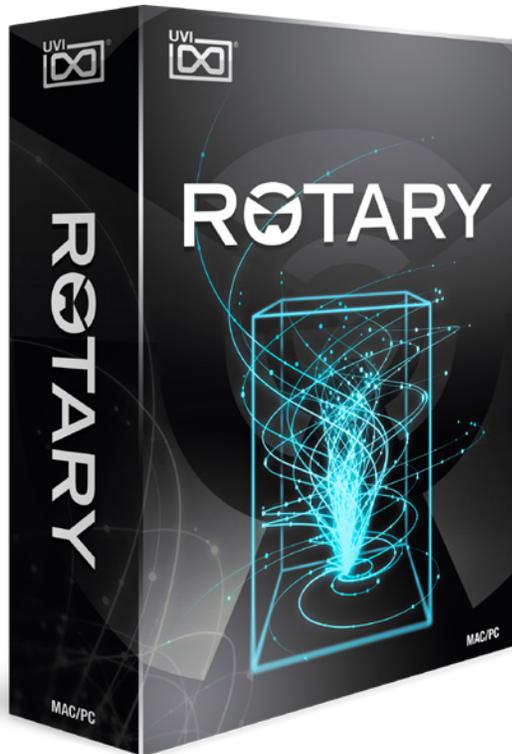
ROTARY
THE EVOLUTION OF TONAL REVOLUTION

Overview

Originally invented in the 1940's, rotary speaker cabinets imaginatively employ the Doppler effect by firing a woofer into a rotating drum and a tweeter into a rotating horn. The results are much more harmonic than typical tremolo or vibrato effects, producing sounds ranging from rich and shimmering to gentle, dreamy and swirling. These novel speakers were quickly adopted by jazz organists, cemented by blues and rock legends such as Buddy Guy, Jimi Hendrix, Robin Trower, Pink Floyd and The Beatles, and later the effect simulated by guitar pedal manufacturers.

Taking its name and inspiration from these classic spinning speakers, Rotary represents the modern evolution of this classic design, delivering both a faithful reproduction of the original cabinets and providing a highly versatile and customizable musical tool for today's artists and audio professionals. A simple and intuitive interface provides for a workflow that's both fast and inspiring, while precise stereo mic placement and deep back panel controls allow for a huge range of tonal possibilities. Rotary can add another dimension to any sounds or instruments (even vocals), enhance harmonics and create a sensation of movement and depth.

Approach

The sound of rotary cabinets comes from the combination, mixing and balancing of numerous components including cabinet, horn and drum speakers, motor, belt, amplifier and the box diffusion itself. Our goal was not only to accurately reproduce each working part but to give complete parametric control over its internal mechanism, allowing the creation of effects well beyond what was possible on the original units.

Several rotary speaker cabinets were extensively modeled, taking into account physical construction, electronics and acoustic profiles including frequency response, harmonic distortion, diffusion and more. Careful testing, calibration and optimization of these models has yielded surprisingly efficient algorithms that are both faithful in sound to their hardware counterparts and light on CPU requirements.

A Future Classic

Rotary brings a vintage effect into the modern age with intuitive and deep controls, a fast workflow and a sophisticated engine. Explore it on a multitude of uses from keyboard and guitar setups to contemporary sounds, vocals and more, and see why Rotary is destined to become a future classic.

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System Requirements

Compatibility

Audio Units, VST, or AAX

Tested and Certified in :
Digital Performer 8+, Pro Tools 11+, Logic 9+, Cubase 7+, Nuendo 6+, Ableton Live 8+, Studio One 2+, Garage Band 6, Maschine 1 & 2, Tracktion 4+, Vienna Ensemble 5, Reaper 4+, Sonar X3, Main Stage 3, MuLab 5.5+

Minimum System Requirements

▶ Mac OS X 10.7 or higher (64-bit / 32-bit compatible)
▶ Mac Intel Processor, 4 GB RAM

Compatibility

VST or AAX

Tested and Certified in :
Digital Performer 8+, Pro Tools 11+, Cubase 7+, Nuendo 6+, Ableton Live 8+, Studio One 2+, Sonar X3+, Maschine 1 & 2, Tracktion 4+, Vienna Ensemble 5, Reaper 4+, Sonar X3, Main Stage 3, MuLab 5.5+

Minimum System Requirements

▶ Windows 7 or higher (64-bit / 32-bit compatible)
▶ Intel Core Duo2+, 4 GB RAM

Flexible Authorization With iLok

All UVI licenses allow up to 3 concurrent activations on any combination of computer hard drives or iLok USB keys, easily managed through the iLok License Manager (ILok account required).

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Interface - Main

Preset Name **2**	**3** A/B Snapshot
Menu Toggle **1**	**5** Back Panel
	8 Mic & Cab
Mic Placement **7**	
Level Meter **6**	**6** Level Meter
Rotation **9**	
	10 Amplifier
Tool Tips **4**	

1 ▶ Menu Toggle
Toggle the drop-down menu on/off
» Load and Save Rotary presets
» Factory Presets
» User Presets

2 ▶ Preset Name

3 ▶ A/B Snapshot
Use to store two different plugin states for A/B comparison
» Initial Click: Stores current state to memory A
» Following Clicks: Stores current state in bank A (resp B) and loads the previous state from bank B (resp A)

4 ▶ Tool Tips
Display instructions for any parameter by hovering over it with your mouse

5 ▶ Back Panel
Open the settings to access the back panel controls

6 ▶ Level Meter
Display the input (left) and the ouput (right) level of the plugin

7 ▶ Mic Placement
Click and drag to set mic placement These positions will graphically link to the controls above

8 ▶ Mic & Cabinet settings
» Model
Choose the model of the speaker cabinet
» Distance
Set the distance of the mics from the speaker cabinet (0.1 ~ 2m)
» Width
Set the angular separation of the two mics (-180 ~ +180˚)
» Angle
Set the angle between the mics and the speaker cabinet (-100 ~ +100%)
» Skew
Set the disparity in distance between mics and cabinet (-100 ~ +100%)
If set high, one mic will be close and the other will be far from the speaker

9 ▶ Rotation
» Speed
Change the speed of the rotary effect between slow (Chorale), stopped (Brake), and fast (Tremolo)
» Chorale
Set the rotation speed to slow (0.1 ~ 3Hz)
» Tremolo
Set the rotation speed to fast (3 ~ 10Hz)

10 ▶ Amplifier
» Drive
Changes the input gain of the amplifier which has even and odd harmonics + global saturation
» Horn
Controls the volume of the horn speaker
» Drum
Controls the volume of the drum speaker
» Gain
Controls amount of output gain

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Interface - Back Panel

1 Settings

2 Box Diffusion

3 Horn

4 Drum

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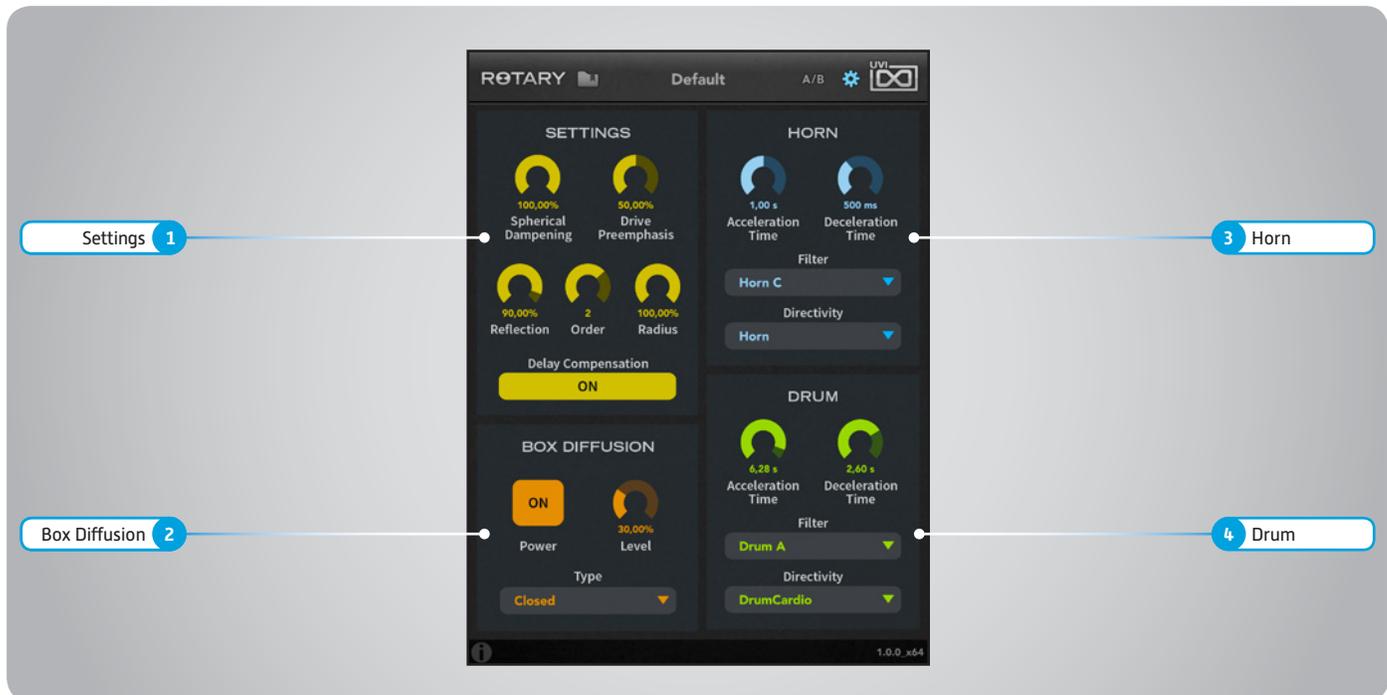
1 ▶ Settings

» **Spherical Dampening**
Controls the amount of attenuation that is applied to reflections with propagation distance

» **Drive Preemphasis**
Controls the amount of pre-emphasis that is applied before amplifier drive

» **Reflection**
Controls the absorption of reflections within the cabinet

» **Order**
Controls the order of ray traced early reflections.
Set between 0-3, beginning with amplitude modulation (AM) + frequency modulation (FM) like a simple vibrato, as reflections are added, the sound begins to chorus and widen, while the modulation becomes more complex

» **Radius**
Changes the length of horn and drum speakers

» **Delay Compensation**
Removes latency caused by mic distance

2 ▶ Box Diffusion

» **Power**
Enable diffusion

» **Level**
Set the amount of diffusion

» **Type**
Set the Cabinet type
(closed or open)

3 ▶ Horn

» **Acceleration Time**
Set the horn acceleration time

» **Deceleration Time**
Set the horn deceleration time

» **Filter**
Set the horn frequency response

» **Directivity**
Choose horn directivity type

4 ▶ Drum

» **Acceleration Time**
Set the drum acceleration time

» **Deceleration Time**
Set the drum deceleration time

» **Filter**
Set the drum frequency response

» **Directivity**
Choose horn directivity type

Directivity Type

- Horn: standard directivity with deflector
- Omni: No AM
- Cardio: Classic polar pattern (sound cancellation when horn is off-axis)
- SoftCardio: Softer version of cardioid (with no off-axis cancellation)
- Unipolar: heavy pulsating tone (pronounced AM)
- Drum : directivity with less side lobes - less wide sound (usable on horn)
- Drum Cardio: standard drum directivity (usable on horn)
- Drum Cardio 2: More pronounced off-phase sidelobes (drum exclusive)
- Drum Cardio 3: Most pronounced off-phase sidelobes (drum exclusive)

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Links

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Home . . . . uvi.net/ ☑

Effect Installation Guide. . . . . installing_uvi_effects_en.pdf ☑

FAQ . . . . uvi.net/faq ☑

Tutorial and Demo Videos . . . . youtube.com/ ☑

Support . . . . uvi.net/contact-support ☑

iLok

Home . . . . ilok.com/ ☑

iLok License Manager . . . . ilok.com/ilm.html ☑

FAQ . . . . ilok.com/supportfaq ☑

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Credits and Thanks

Produced by UVI

DSP
Rémy Muller

Software
Olivier Tristan
Rémy Muller

GUI
Nathaniel Reeves

Preset Design
Damien Vallet
Alain Etchart

Documents
Nathaniel Reeves
Garrett DeMartinis
Kai tomita

UVI™