

# Shine 4 - User Guide

## 4-Mode High Resolution Exciter

**Version:** 1.0

**Website:** [rockheyday.com](http://rockheyday.com)

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**Formats:** Standalone Application (Windows 64-bit), VST3 (Windows)

**Audio Engine:** 96 kHz Ready / 32-bit Floating Point

**Shine 4** is a high-resolution harmonic exciter focused on controlled spectral enhancement and precise harmonic generation. Instead of applying broad brightness, the processor allows targeted excitation through stepped frequency control and selectable response modes, making it suitable for both subtle clarity improvements and deliberate tonal coloration.

The engine provides multiple excitation models and tone responses supported by a structured gain stage with pre-drive and output trim for consistent level management. Real-time dual-layer FFT analysis and peak metering allow users to monitor how harmonics and levels change during processing, helping maintain accuracy while shaping the signal. Shine 4 is available as both a standalone application with playback and export functions, and as a VST3 plugin.

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## Key Features

- **Engine:** High-Resolution Digital Exciter with Selectable Non-Linear Harmonic Generation
- **Frequency Control:** Stepped integer controls from **12 kHz down to 1000 Hz**
- **Exciter Types:** Silk, Tube, Tape, Sparkle
- **Tone Mode:** Neutral, Dark, Bright
- **Analyzer:** Dual-Layer Input/Output FFT display for precise harmonic monitoring
- **Analysis & Metering Response:** Internal 4.5 dB tilt and 350 ms ballistic decay
- **Gain Structure:**
  - Drive: 0 dB to +24 dB (Pre-processing)
  - Output : -12 dB to +12 dB (Post-processing)
- **Metering:** Dual-layer LR Peak meters (background = input, foreground = output)
- **Precision:** 32-bit floating-point internal processing
- **Sample Rates:** 44.1 - 96 kHz (Standalone), Host-Dependent in VST3

## Standalone-Only Features

- **Playback:** Drag & Drop loading with Loop functionality
- **Export:** Render processed audio to WAV (16-bit or 24-bit)

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## Standalone Architecture

The standalone architecture enables instant loading, looping, and analysis of audio files without requiring a DAW. It's designed for fast, focused audio work— whether for reference checking, harmonic inspection, or precision adjustments.

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## CPU-Efficient Processing

Each tool is engineered with highly optimized DSP and lightweight graphics, ensuring stable, low-latency performance in both standalone and VST3 formats—even under heavy analysis or high sample rates.

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## Analyzer and Windowing

### High-Resolution Spectrum Engine

This tool provides a high-resolution real-time spectrum display optimized for accurate dual-layer frequency visualization during playback.

### Blackman Windowing

An ultra-low spectral leakage Blackman window provides clean frequency separation and stable fundamentals, minimizing spectral smearing between adjacent bands.

### Precision Engine Support

The application operates using a high-resolution 32-bit floating-point processing engine, optimized for desktop performance and stable real-time operation.

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## Standalone File Management and Export

### Flexible Loading

- **Load Button:** Browse files via your system dialog.
- **Drag & Drop:** Drag audio files directly onto the window for instant loading.

### Audio Export

It is intended for reference renders, comparison, and archiving.

- **Format:** WAV
- **Bit Depth:** Selectable 16-bit or 24-bit

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## WAV Output Only

The application processes all audio in high-resolution 32-bit float, so exporting to compressed formats would cause generation loss and artifact buildup. To preserve full fidelity, the output is limited to uncompressed WAV with selectable 16-bit or 24-bit depth.

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## Credits

**Development:** Application architecture, processing integration, analysis engine, and user interface design by Hakan Yurdakul. DSP implementations use JUCE framework components.

**Framework:** Developed using the JUCE framework.

**Typography:** Open Sans (SIL Open Font License 1.1). Copyright © The Open Sans Project Authors.

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## Installation & First Launch (Windows)

**Shine 4** standalone version is a portable application. No installation is required.

1. Download and unzip the file.
2. Double-click **Shine4.exe** to launch the application.

**Note:** On the first launch, Windows may display a “**Windows protected your PC**” message. This occurs because the application is not yet code-signed by Microsoft.

**To continue:**

1. Click **More info**
2. Click **Run anyway**

*The application does not install background services or modify system files.*

### VST3 Plugin

1. Copy the file "**Shine4.vst3**" to the standard VST3 folder on your computer:  
C:\Program Files\Common Files\VST3\
2. Once copied, restart your **DAW** or rescan your plugins.