**HEADRUSH HRCORE**

# HeadRush Core User Manual

Brand: HEADRUSH | Model: HRCORE

## 1. INTRODUCTION

The HeadRush Core is a powerful multi-core effects processor designed for guitarists and vocalists. It offers a comprehensive library of realistic guitar effects, amplifier, cabinet, and microphone emulations, alongside a full suite of vocal effects, including Antares Auto-Tune. Its intuitive 7-inch touchscreen interface and robust steel chassis make it suitable for various applications, from studio recording to live performances.
Key features include:

- Powerful Electric Guitar FX & Amp Modeler and Vocal Processor with a 7" hi-res touchscreen.
- Smart Amp Cloner with Wi-Fi Cloud Sharing to capture and share analog gear sounds.
- Vocal FX Suite including Antares Auto-Tune for perfect onstage vocals.
- Built-in Looper with MIDI Sync for dynamic performances and songwriting.
- Extensive connectivity options for guitars, microphones, and external devices.
- Durable steel chassis and customizable footswitches with color LEDs.
- Includes ReValver 5 and ReValver Amp Cloner Software for macOS and Windows.
- Ever-expanding FX library with premium emulations and 300+ Impulse Response Files.
- Gapless Preset Switching with Reverb/Delay Tail Spillover for seamless rig changes.

Figure 1: Front view of the HeadRush Core processor.

*Figure 2: Overview of HeadRush Core's powerful features.*

## 2. What's in the Box

Carefully unpack the contents of the HeadRush Core box. Ensure all items listed below are present:

- HeadRush Core Unit
- IEC cable with power adapter
- USB A to USB B Cable
- Quick Start Guide
- Safety and Warranty Manual
- Celestion Download Card
- Windows Driver Download Card

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*Video 2: A quick unboxing video of the HeadRush Core.*

## 3. SETUP

### 3.1 Connecting Your Equipment

The HeadRush Core offers a variety of input and output options to integrate with your existing setup. Refer to the diagram below for a visual guide to the rear panel connections.
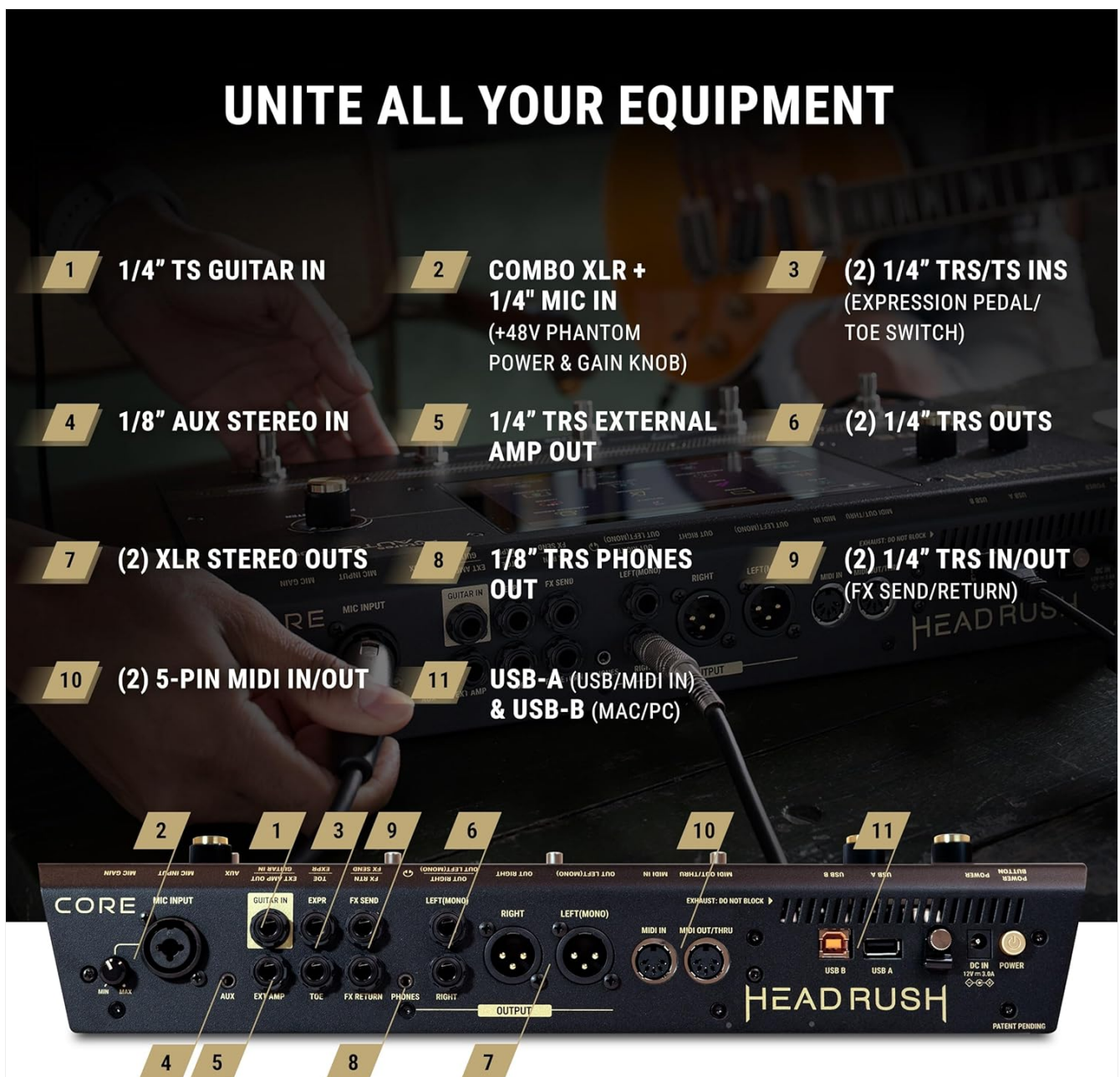


*Figure 3: Rear panel connections of the HeadRush Core.*

- **1/4" TS Guitar In:** Connect your electric guitar here.
- **Combo XLR + 1/4" Mic In:** For microphones, with switchable +48V Phantom Power and a dedicated gain knob.

- **(2) 1/4" TRS/TS Ins:** For expression pedals or toe switches (sold separately).
- **1/8" AUX Stereo In:** Connect external audio devices for playback.
- **1/4" TRS External Amp Out:** For connecting to the footswitch input of a traditional guitar amplifier.
- **(2) 1/4" TRS Outs:** Stereo outputs for connecting to amplifiers or FRFR speakers.
- **(2) XLR Stereo Outs:** Balanced XLR outputs for direct connection to a PA system or mixer.
- **1/8" TRS Phones Out:** For connecting headphones for private monitoring.
- **1/4" Stereo FX Loop:** Send and Return jacks for integrating external effects pedals into your signal chain.
- **5-Pin MIDI I/O:** For MIDI control with external devices.
- **USB-A (USB/MIDI In) & USB-B (Mac/PC):** Connect to a computer for recording, re-amping, and firmware updates. USB-A also supports flash drives for additional storage.



*Figure 4: Detailed view of HeadRush Core's rear panel connections.*

# 4. OPERATING THE HEADRUSH CORE

## 4.1 User Interface and Navigation

The HeadRush Core features a responsive 7-inch high-resolution touchscreen for intuitive control. You can tap, drag, and swipe to navigate menus, adjust settings, and build your rigs.

*Figure 5: The 7-inch touchscreen interface for managing effects and rigs.*

The five customizable footswitches with color LEDs provide hands-free control over your sounds. They can be assigned to activate/deactivate effects, switch rigs, or control the looper.

*Figure 6: Footswitches and LED indicators on the HeadRush Core.*

## 4.2 Amp & FX Modeling and Cloning

Explore a vast library of vintage, modern, and boutique guitar gear emulations. The proprietary 'Smart Cloning' technology allows you to capture the sound, dynamics, and feel of your own physical amps, pre-amps, distortion, overdrive, and fuzz pedals.

*Figure 7: ReValver Amp Cloner software for capturing and customizing amp models.*

The HeadRush Core also supports virtually unlimited loading of third-party Impulse Response (IR) files, providing extensive cabinet emulation options.

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*Video 3: An overview of the HeadRush Core's guitar and vocal multi-core effects capabilities.*

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*Video 4: Demonstrates the guitar and vocal multi-core features of the HeadRush Core.*

## 4.3 Vocal FX Suite

Enhance your vocals with a dedicated suite of effects, including the industry-standard Antares Auto-Tune for pitch correction and creative vocal processing.
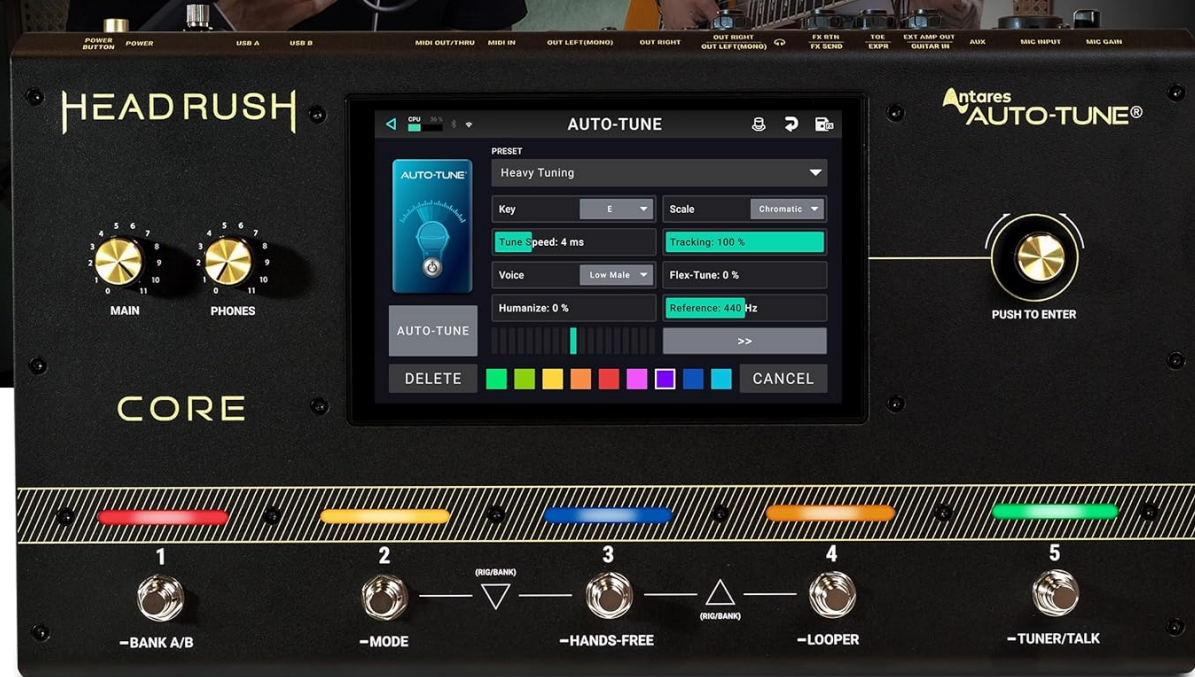
*Figure 8: The Vocal FX Suite, featuring Antares Auto-Tune.*

## 4.4 Built-in Looper

Create complex arrangements or capture song ideas with the integrated looper. It supports MIDI Sync for precise timing and allows you to save loops as .WAV files for later use.

*Figure 9: The looper interface on the HeadRush Core.*

## 4.5 Practice Tools

The HeadRush Core includes features to aid in practice, such as adjusting the speed and pitch of loaded audio files without affecting each other, making it easier to learn complex parts.

*Figure 10: Music practice tool for learning and rehearsing.*

## 4.6 Connectivity: Wi-Fi, Bluetooth, and USB

Connect wirelessly via Wi-Fi to the HeadRush Cloud to browse, share, and download rigs and clones from a global community. Bluetooth connectivity allows you to stream audio from your mobile devices for play-along practice.

*Figure 11: Wi-Fi remote editing and HeadRush Cloud integration.*

The built-in USB audio interface supports direct recording to Mac/PC at up to 24-bit 96 kHz, and allows for re-amping.

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*Video 5: Nate Notes provides a detailed launch overview of the HeadRush Core, covering its features and capabilities.*

## 5. Maintenance

To ensure the longevity and optimal performance of your HeadRush Core, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior. Avoid abrasive cleaners or solvents.
- **Firmware Updates:** Regularly check the HeadRush website for the latest firmware updates. Updates can introduce new features, improve performance, and fix bugs. Connect your unit to a computer via USB for updates.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.

- **Cable Management:** Ensure cables are not kinked or strained to prevent damage to the ports.

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*Video 6: HeadRush Firmware 4.1 Social Edit 3, demonstrating new features or improvements.*

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*Video 7: HeadRush Firmware 4.1 Social Edit 2, showcasing additional updates.*

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*Video 8: HeadRush Firmware 4.1 Social Edit 1, highlighting key firmware enhancements.*

## 6. TROUBLESHOOTING

If you encounter issues with your HeadRush Core, try the following steps:

- **No Power:** Ensure the power adapter is securely connected to the unit and a working power outlet.
- **No Sound:** Check all cable connections (instrument, outputs, headphones). Verify volume levels on the unit and connected devices. Ensure the correct input/output routing is selected in the Global Settings.
- **Distorted Sound:** Check input gain levels to prevent clipping. Ensure output levels are appropriate for the connected device.
- **Connectivity Issues (Wi-Fi/Bluetooth):** Ensure the unit is within range of the network/device. Restart the unit and your connecting device. Check Wi-Fi/Bluetooth settings in the Global Settings menu.
- **Software Glitches:** Perform a firmware update if available. As a last resort, a factory reset can resolve many software-related issues (refer to the full user guide for instructions on performing a factory reset, as this will erase all user data).

For more detailed troubleshooting, please refer to the official User Guide (PDF).

## 7. SPECIFICATIONS

| Feature | Specification |
| --- | --- |
| Item Weight | 8.58 pounds (3.9 Kilograms) |
| Product Dimensions | 9.29 x 16.06 x 2.95 inches |
| Country of Origin | Taiwan |
| Item Model Number | HRCORE |
| Batteries | 1 Lithium Metal batteries required (included) |
| Color Name | Core - black |
| Hardware Interface | Bluetooth |
| Signal Format | Analog |

| Feature | Specification |
| --- | --- |
| Battery Type | Lithium Metal |
| Power Source | Corded Electric |
| Voltage | 12 Volts |

## 8. WARRANTY AND SUPPORT

For detailed warranty information and customer support, please refer to the Safety and Warranty Manual included in your product packaging. You can also find the full user guide and additional resources on the official HeadRush website.

**User Guide (PDF):** Download Here

Protection plans are available for purchase separately:

- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect (monthly plan)