HEADRUSH Core and FRFR112 MK2

HEADRUSH Core and FRFR112 MK2 User Manual

Guitar and Vocal Multi Core Effects Amp Modeling Processor, and 12-inch 2500W Electric and Bass Guitar Amp with Bluetooth

INTRODUCTION

This manual provides comprehensive instructions for the HEADRUSH Core Guitar and Vocal Multi Core Effects Amp Modeling Processor and the HEADRUSH FRFR112 MK2 12-inch 2500W Electric and Bass Guitar Amp. This powerful combination offers guitarists, vocalists, and bassists a versatile and portable solution for effects processing and amplification. The HeadRush Core features realistic amp, cab, mic, and effect models, smart cloning technology, a vocal effects suite with Antares Auto-Tune, a built-in looper, and wireless connectivity. The FRFR112 MK2 speaker delivers 2500 watts of clear, neutral amplification, preserving your tone with its full-range 12" woofer and 1" tweeter.

Image: The HeadRush Core multi-effects processor shown alongside the HeadRush FRFR112 MK2 powered speaker, illustrating the complete system.

SETUP

1. Unpacking and Inspection

Carefully unpack all components. Inspect the HeadRush Core and FRFR112 MK2 for any signs of damage during transit. Retain all packaging materials for future transport or storage.

2. Power Connection

- Connect the supplied power cable to the power input on the rear of the HeadRush Core.
- Connect the supplied power cable to the power input on the rear of the FRFR112 MK2.
- Plug both power cables into a grounded electrical outlet. Ensure the power switch on both units is in the OFF position before connecting to power.

3. Audio Connections

- **Guitar/Instrument Input:** Connect your guitar or instrument to the 1/4" TS input on the HeadRush Core.
- **Microphone Input:** For vocal processing, connect your microphone to the Combo XLR + 1/4" input. Ensure phantom power is enabled if using a condenser microphone.
- **Output to FRFR112 MK2:** Connect the Stereo XLR or 1/4" outputs from the HeadRush Core to the inputs of the FRFR112 MK2. For stereo operation, use both left and right outputs.
- **Headphones:** Connect headphones to the 1/8" headphones output for silent practice.
- **FX Loop:** Utilize the 1/4" stereo FX loop for integrating external pedals or effects units.

Image: A close-up view of the HeadRush Core's rear panel, highlighting the various input and output connections for instruments, microphones, and external devices.

4. Initial Power On

Once all connections are secure, power on the FRFR112 MK2 first, then the HeadRush Core. This sequence helps prevent sudden pops or surges.

OPERATING INSTRUCTIONS

1. Navigating the Touchscreen Interface

The HeadRush Core features a 7-inch high-resolution touchscreen for intuitive control. Tap, swipe, and drag elements to adjust settings, select rigs, and manage effects. The interface is designed for quick and easy editing.

Image: A user's hands interacting with the HeadRush Core's touchscreen, which shows the looper function with various controls and a waveform display.

2. Amp Modeling and Effects

- **Selecting Rigs:** Browse and select from a vast library of pre-loaded rigs, which combine amps, cabinets, and effects.
- **Customizing Effects:** Tap on individual effect blocks on the screen to adjust parameters. Drag and drop blocks to reorder them within your signal chain.
- **Smart Cloning:** Use the smart cloning feature to capture the unique sound and response of your favorite analog gear.

Image: An overview of the HeadRush Core's key features, including its multi-core processor, extensive amp and effects library, Antares Auto-Tune integration, smart cloning capabilities, and wireless connectivity.

3. Vocal FX Suite

The HeadRush Core includes a comprehensive vocal effects suite. Access effects such as Antares Auto-Tune, automatic harmonies, reverb, delay, distortion, compression, EQ, and de-esser. Adjust vocal parameters directly on the touchscreen.
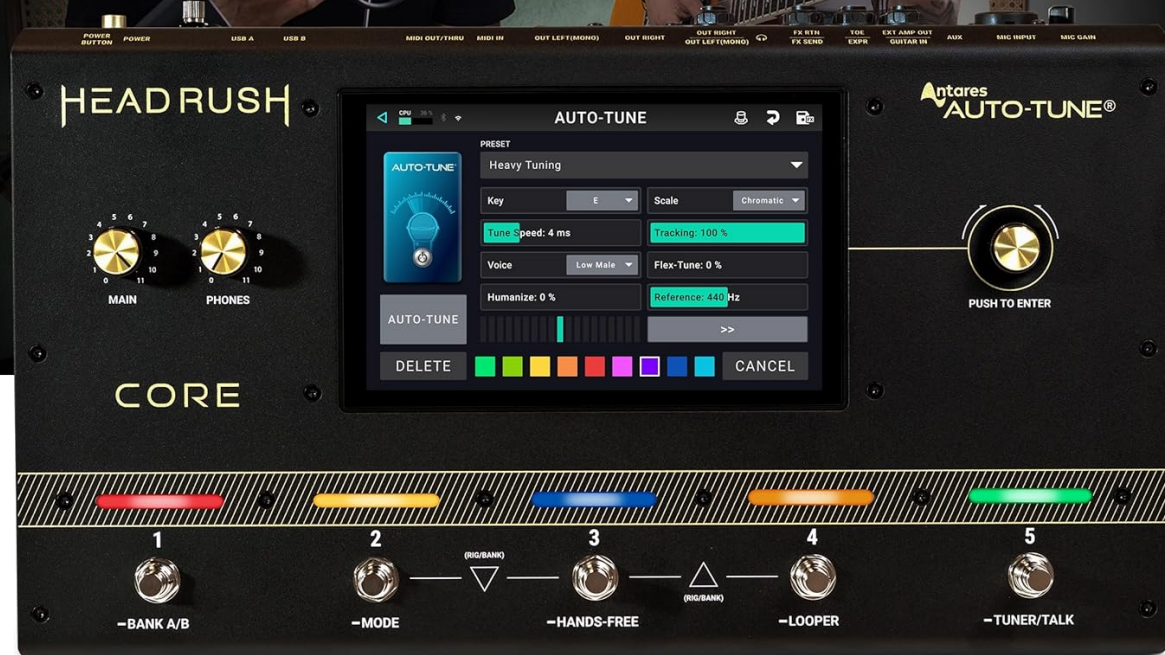
Image: A detailed view of the HeadRush Core's touchscreen displaying the Antares Auto-Tune interface, allowing users to adjust key, scale, voice type, and other tuning parameters.

4. Looper Functionality

The built-in looper allows for layering sounds and capturing musical ideas. Loops can be saved as .WAV files and exported for later use. MIDI sync capabilities ensure precise timing with other devices.

5. Bluetooth Audio

Connect your mobile device via Bluetooth to stream audio for practice or play-along. This feature allows you to play along with backing tracks or songs directly through the FRFR112 MK2.

BLUETOOTH ENABLED

FAST & SIMPLE MUSIC STREAMING
FROM YOUR MOBILE DEVICE

Image: The HeadRush Core and FRFR112 MK2 set up with a bass guitar and electric guitar, demonstrating Bluetooth connectivity to a tablet for audio streaming.

6. FRFR112 MK2 Operation

- **Volume Control:** Adjust the master volume on the FRFR112 MK2 to suit your environment.
- **Placement:** The FRFR112 MK2 can be used as a wedge monitor, pole-mounted, or in an upright position for optimal sound projection.

PERFECT FOR STAGE, STUDIO, AND PRACTICE

ROAD-READY STEEL CHASSIS

5 CUSTOMIZABLE FOOTSWITCHES
WITH COLOR LEDS

RECORD DIRECT TO MAC/PC
UP TO 24-BIT/96KHZ

MUSIC PRACTICE TOOL
ADJUST SPEED, PITCH, LOOPS

Image: A close-up of the HeadRush FRFR112 MK2 speaker, highlighting its precision-tuned design for accurate sound delivery of amp and cabinet emulations.

PRECISION TUNED

FOR ACCURATE, LINEAR DELIVERY OF AMP & CAB EMULATIONS

MASTERFULLY VOICED

12" SPECIALLY-VOICED WOOFER

1" HIGH-FREQUENCY COMPRESSION DRIVER

Image: The HeadRush Core and two FRFR112 MK2 speakers set up on a stage, illustrating the powerful 2500-watt output and clear sound for live performance.

Image: A person easily carrying the HeadRush FRFR112 MK2 speaker by its handle, highlighting its lightweight design (34.7 lbs) for easy transport.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior surfaces of both units. Avoid abrasive cleaners or solvents.
- **Storage:** When not in use for extended periods, store the units in a cool, dry place, ideally in their original packaging or a protective case.
- **Firmware Updates:** Periodically check the HEADRUSH website for firmware updates to ensure optimal performance and access to new features.

Troubleshooting

No Sound Output

- Ensure all power cables are securely connected and both units are powered on.
- Check all audio cables (instrument, microphone, and output to speaker) for proper connection and integrity.
- Verify that the volume levels on both the HeadRush Core and FRFR112 MK2 are turned up.
- Confirm that the correct input is selected on the HeadRush Core.
- If using headphones, ensure they are fully plugged in and the headphone volume is adjusted.

Distorted or Unwanted Sound

- Check input gain levels on the HeadRush Core to prevent clipping.
- Review the effects chain on the HeadRush Core for any effects that might be causing unwanted distortion.
- Ensure the FRFR112 MK2's volume is not excessively high, leading to speaker distortion.

Connectivity Issues (Wi-Fi/Bluetooth)

- Ensure Wi-Fi and Bluetooth are enabled on the HeadRush Core and your external device.
- Move closer to your Wi-Fi router or Bluetooth device to improve signal strength.
- Restart both the HeadRush Core and the external device.
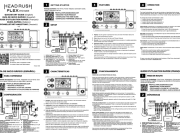
SPECIFICATIONS

Feature	Detail
Product Type	Guitar and Vocal Multi Core Effects Amp Modeling Processor (Core) and Powered Full-Range Flat-Response Speaker (FRFR112 MK2)
Brand	HEADRUSH
Processor	Multi-core processor
Display	7" Hi-Res Touchscreen
Vocal Effects	Antares Auto-Tune, Automatic Harmonies, Reverb, Delay, Distortion, Compression, EQ, De-esser, Stutter
Looper	Built-in, with MIDI Sync, saves as .WAV files
Audio Interface	USB Audio (up to 24-bit 96 kHz) for Mac/PC
Wireless Connectivity	Bluetooth 5, Wi-Fi (for Cloud Sharing)
Inputs (Core)	1/4" TS (Guitar), Combo XLR + 1/4" (Mic with switchable phantom power)
Outputs (Core)	Stereo XLR, Stereo 1/4", 1/8" Headphones
Other Connections (Core)	5-Pin MIDI I/O, 1/4" Stereo FX Loop
FRFR112 MK2 Power Output	2500 Watts
FRFR112 MK2 Speaker Configuration	12" Specially-Voiced Woofer, 1" High-Frequency Compression Driver
FRFR112 MK2 Weight	34.7 lbs
Color	Black

WARRANTY AND SUPPORT

HEADRUSH products are designed for reliability and performance. For detailed warranty information, please refer to the warranty card included with your product or visit the official HEADRUSH website. For technical support, product

registration, or service inquiries, please contact HEADRUSH customer support through their official channels.

Online resources, including FAQs and additional documentation, may also be available on the HEADRUSH website.

For the latest information and support, please visit: www.headrushfx.com

Related Documents

	[HeadRush Core Quickstart Guide](#) A quickstart guide for the HeadRush Core, covering its features, setup, and basic operation. Includes technical specifications and connection details.
	[HeadRush MX5 Guitar Effects Processor: User Guide and Quickstart](#) This comprehensive guide for the HeadRush MX5 guitar effects processor covers setup, operation, features like rigs, scenes, looper, and global settings. Available in multiple languages.
	[HeadRush MX5 Quickstart Guide: Guitar Effects Processor](#) Get started quickly with the HeadRush MX5, a powerful guitar effects processor. This guide covers setup, basic operation, footswitch modes, rig management, and hardware assignments for your HeadRush MX5.
	[Headrush Flex Prime Quickstart Guide](#) Concise guide to getting started with the Headrush Flex Prime, a powerful guitar multi-effects processor and amp modeler. Learn setup, features, and operation.