



USER MANUAL

Arena2000 Amp Modeling / Multi-effects Processor



INTRODUCTION

Thank you for purchasing the Donner Arena2000 Amp Modeling / Multi-effects Processor!

The Arena2000 is a professional guitar multi-effects processor that boasts portable size, powerful tones, and flexible operation. The advanced FVACM technology, which was developed by Donner's teams, greatly restores the characteristics of classic guitar effects and amplifiers and achieves dramatic changes in sound. This processor includes 80 Hi-res models covering from classic to modern guitar amplifiers, 50 built-in cab IR models (and 50 Slots for loading 3rd Part IRs), and 10 mic simulators, for a total of 278 effects. Optional effects blocks in the effect chain for flexible signal routing and multi-function Ctrl & EXP pedals ensure unlimited control possibilities during your performance! The built-in 40 styles drum machine and up to 60s looper allow you to achieve a one-man band! Extensive interfaces support MIDI IN, PC code preset switching, come with USB-C for supporting both computer and mobile phone tone editing. Start with the Arena2000 to enjoy and find out the happiness of music!

FEATURES

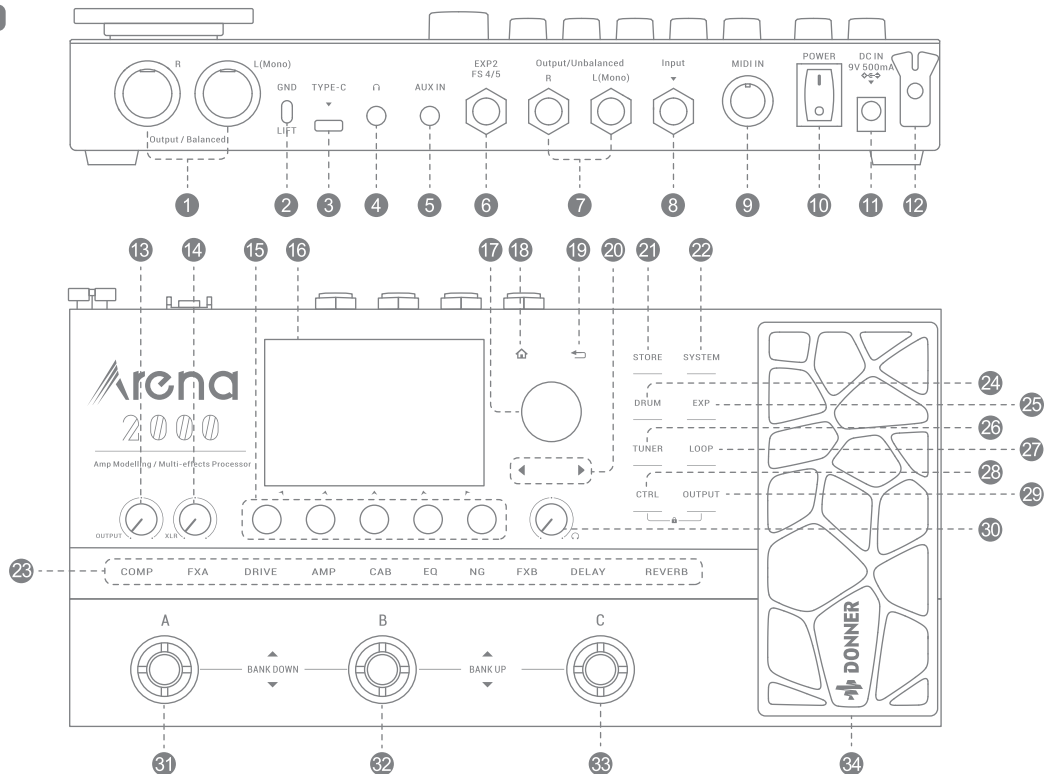
- FVACM (Forward Analog Virtual Circuit Modeling) Technology
- 150 Presets (50 Banks x 3 Presets)
- 80 Hi-res Amp Models
- 50 Built-in Cab IR Models + 50 Slots for Loading 3rd Part IRs
- IR Length: 23.2ms
- A Total of 278 Effects
- Moveable Effects Blocks for Flexible Signal Routing
- Multi-function Ctrl and Expression Pedals ensure unlimited control possibilities
- Built-in Drum Machine with 40 Patterns, and 60s Looper with Reversed/Double Speed/Half Speed
- USB Audio/Recording supports recording dry and effect signal simultaneously
- MIDI IN for External Switching Devices
- Computer Software for Tone Editing, Backup, and Firmware Update
- Mobile App for Bluetooth wireless Tone Editing

PRECAUTIONS

Please read the following in detail first before operation.

- Please use the AC adapter which supplies 9V DC by this product.
- Please turn off the power supply and pull out the power cord when the product is not in use for an extended period of time.
- Make sure that the power is off when connecting or cutting off the power cord.
- In order to avoid interference with other products such as televisions and radios, do not place the product near the electrical devices.
- Please do not disassemble or modify this product so as to avoid the danger of fire and electric shock.
- Do not store it in the following environments: Direct sunlight, high temperature, excessive humidity, excessive dust, strong vibration.
- Do not clean the product with thinners, alcohol, or similar chemicals to avoid discoloration.
- Donner is not responsible for damage caused by improper use or modifications to the device.

OVERVIEW



- 1 **XLR Output L/R Jacks:** Balanced stereo main outputs.
- 2 **GND/LIFT Switch:** For controlling whether the XLR balanced output is grounded.
- 3 **USB-C Jack:** USB Type C connector for connecting to the computer for USB audio, tone editing, backups, firmware upgrades, and IRs import.
- 4 **Headphone Jack:** 1/8" stereo output interface for connecting the headphone.
- 5 **AUX IN Jack:** 1/8" stereo external audio input connector.
- 6 **EXP2 External Pedal Jack:** Connect an external expression pedal with a 1/4" stereo TRS cable or a dual-footswitch pedal.
- 7 **Output L/R Jacks:** 1/4" TS unbalanced stereo outputs. To use mono signal, just plug in the L output.
- 8 **Input Jack:** 1/4" TS mono high impedance input for guitar/bass.
- 9 **MIDI IN Jack:** 5-pin MIDI IN input for receiving MIDI control messages.
- 10 **Power Switch:** Turn on/off the power.
- 11 **DC IN Jack:** Use a 9V DC regulated power adapter, 500mA 
- 12 **Tieline Buckle:** Used to tie the power adapter to prevent the power cable from falling off.
- 13 **Output Volume Knob:** Control the volume of the 1/4" unbalanced outputs.
- 14 **XLR Volume Knob:** Control the volume of the XLR balanced outputs.
- 15 **Parameter Knob 1-5:** Used to adjust effect parameters.
- 16 **LCD Display:** 3.5-inch TFT color screen (320 X 480 pixels).
- 17 **Value Knob:** Pressable knob for navigating the menu and adjusting the parameters.
- 18  **Button:** "HOME" function. Pressing for return to the HOME screen (preset page).
- 19  **Button:** "BACK" function. For exiting the current operation or returning to the previous menu.
- 20 **Page Button:** Used for effect modules to turn pages.
- 21 **Store Button:** Press the button for storing presets.

- 22 **System Button:** Press the button to enter the system menu for global setups.
- 23 **Effect Blocks Button:** Turn On/Off the effect blocks, or enter the blocks for effect editing.
- 24 **Drum Button:** Press the button to enter the drum machine interface.
- 25 **EXP Button:** Press the button to set the expression pedal functions (EXP1/EXP2).
- 26 **Tuner Button:** Press the button to enter the tuner interface.
- 27 **Loop Button:** Press the button to enter the looper interface.
- 28 **CTRL Button:** Press the button to set the CTRL footswitch functions.
- 29 **Output Button:** Press the button to set if Cab Sim effect is assigned to XLR and 1/4" outputs.
- 30 **Headphone Volume Knob:** Control the volume of the headphone output.
- 31 **Footswitch A:** With RGB light circle, corresponding to the function indicated in the screen. Default is to switch the preset of group A in this Bank.
- 32 **Footswitch B:** With RGB light circle, corresponding to the function indicated in the screen. Default is to switch the preset of group B in this Bank.
- 33 **Footswitch C:** With RGB light circle, corresponding to the function indicated in the screen. Default is to switch the preset of group C in this Bank.
- 34 **EXP Pedal:** For controlling the defined parameters in real-time.

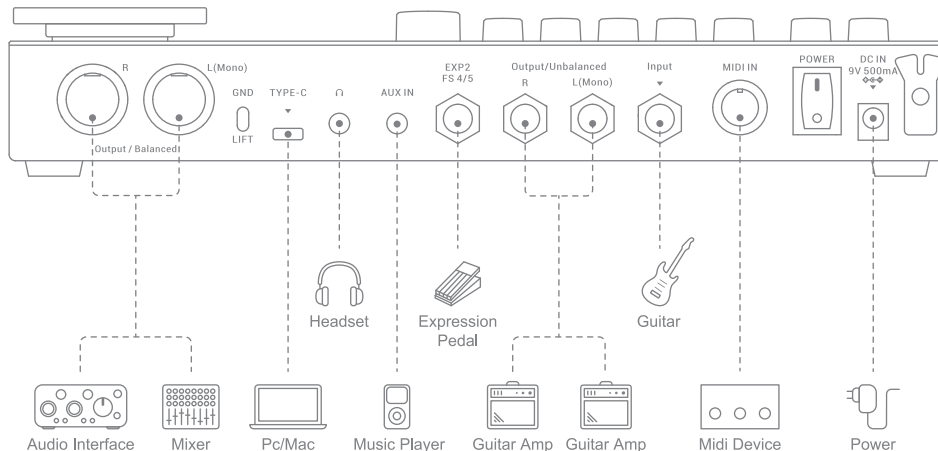
OPERATION

This operation guide allows you to enjoy the powerful sound and flexible control of the Arena2000 quickly and safely!

Making Connections

Cautions: There are several different connections options available with the Arena2000.

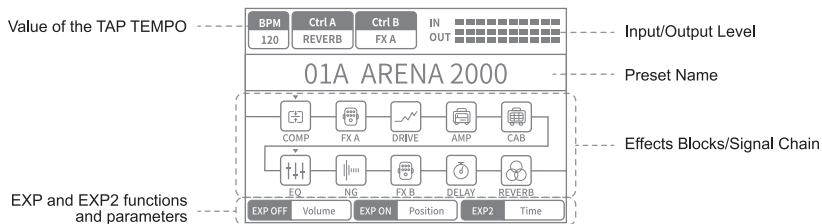
1. Before connecting the Arena2000, make sure that the volume knobs of OUTPUT, XLR, and PHONE are turned to the minimum.
2. Follow the principle that after connecting all the devices, turn on the effect device first, then turn on the playback devices (such as amplifiers). When turning off, turn off playback device first, and then the effect device.
3. Recommend using the power supply that is equipped with the Arena2000, because mismatches and noise may occur when using other power supplies.
4. Input and Unbalanced Output L/R must use 1/4" mono shielded audio cables. High-quality audio cables ensure clean and stable signal transmission.



Incorrect operation may lead to damage to devices and hearing!

Using Presets

Arena 2000 provides a total of 150 presets (50 Banks, 3 presets per bank). All presets can be selected by rotating the **Value Knob**.



1. Selecting Presets

- ① By pressing the **Footswitch A/B/C** can switch three presets in the same bank, the footswitch of the selected preset will light up in white.
- ② Press the **Footswitch A/B or B/C** simultaneously can switch between banks or connect an external dual-footswitch pedal to switch banks.

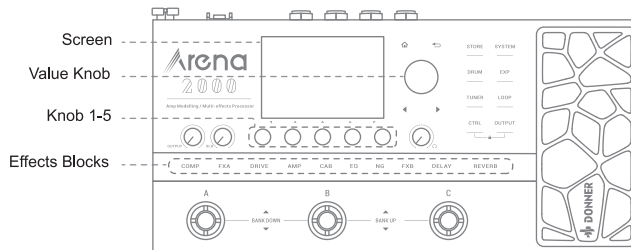


2. Adjusting The Volume

Use the OUTPUT, XLR, and PHONE Volume Knobs to adjust the output volume.

Effects Blocks On/Off and Adjustment

- ① Press the name of the **Effect Block** on the panel can turn on/off or enter the adjustment interface of this block.
- ② Rotating the **Value Knob** can select the effects under the present block, and the **Knobs 1-5** below the screen can adjust the effect parameters on the corresponding screen.
- ③ Pressing or pressing continuously can return to the main interface of the effect chain.
- ④ If an effect has more than one adjustment page, touching can turn pages.



Changing the Order of Effect Blocks of the Chain

Arena2000 allows the user to change the order of the effect blocks in the chain.

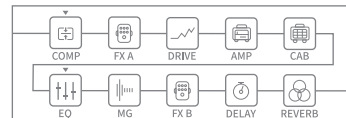
Step 1: Press  to return to the main screen, press the **Value Knob** and the preset name bar will change to blue from green.

Step 2: Then rotate the **Value Knob** until a cursor appears above the effects chain, rotate the **Value Knob** to choose the effect block which you want to move.

Step 3: Press the **Value Knob** to select it, then rotate the **Value Knob** to place the selected block in the new position.

Step 4: Finally, press the **Value Knob** again to confirm.

Cursor

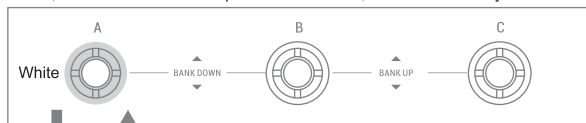


Preset Switching Mode and Control Mode

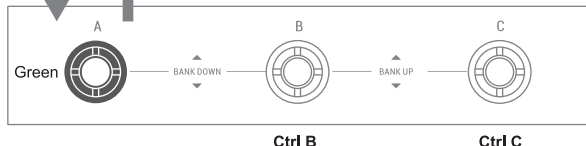
There are two modes of operation for Arena2000 footswitches: **Preset Switching Mode and Control Mode.**

- ① The default is Preset Switching Mode when power on, in this mode, the currently selected preset footswitch will light up white. Step this footswitch to toggle between Preset Switching Mode and Control Mode. The light of this footswitch will turn green in Control Mode. The other two footswitches will become Ctrl footswitches, which can be set as any effect block switch, tuner switch, or TAP tempo switch.
- ② The control contents for the other two footswitches can be set by pressing the panel's **CTRL** button. (See CTRL and EXP settings for details) In Control Mode, press A/B or B/C footswitch together can still switch the banks, and after the bank and preset are selected, it will automatically return to Preset Switching Mode.

Preset Switching Mode



Control Mode



CTRL, EXP1 and External EXP2 Pedal Setting

Arena 2000 allows users to customize the functions of the CTRL footswitch and EXP1/EXP2 pedals.

1. CTRL Footswitch Setting

Step 1: Select a preset footswitch, then press the footswitch again to enter the control mode (the light of the preset footswitch will light up green). Then the other two footswitches will become CTRL footswitches, and the screen will display the control contents of each CTRL footswitch.

Step 2: Click the **CTRL** button to enter the CTRL Settings, the default preset footswitch is displayed as Enter/Exit, and the other two footswitches show what they control. Rotate the **Value Knob** to select the CTRL footswitch you want to change content and press the **Value Knob** to select it (the content bar shows green), then rotate the **Value Knob** to choose the effect content, and finally press the **Value Knob** to confirm it (the content bar shows blue).

Step 3: The CTRL footswitch settings can be saved to each preset.



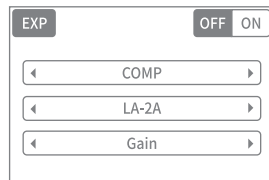
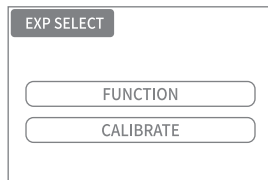
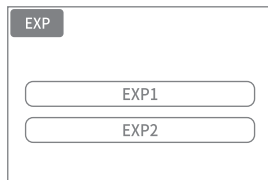
2. EXP1 Pedal Setting

The EXP1 has On/Off states (light on/off on the panel), the user can define the functions and parameters to be controlled in these two states. For example, you can set the Off state as a volume pedal and the On state as a Wah. Press the front of the pedal (toe down) firmly to switch the EXP1 On/Off states.

Note: On/Off of the EXP1 only means two states of operation, and Off state doesn't mean the pedal is not working, unless it is set to No Function.

Follow the steps to define the pedal functions:

Press the **EXP** button on the panel to access pedal function settings. Select EXP1, then set the functions controlled by EXP in On and Off states according to the menu contents.

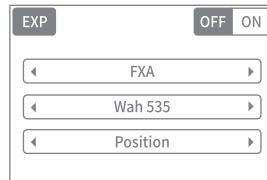


I . Set the EXP Pedal as A Wah Tone Pedal

Set one of the On/Off states of EXP1 to turn on the 535 or 847 effect of the FXA block, and control the “Position”, it will control the wah effect like a real classic wah pedal.

When the EXP1 pedal is switched to another state, the FXA block will turn off and the EXP1 controls what is set in the current state, such as the total volume or the time of the delay.

* EXP2 does not provide On/Off function.



II . Set EXP Pedal as A Volume Pedal

The user can set any EXP as a Volume pedal. The position of this volume pedal is at the end of the effect chain, controlling the total output volume, but before the OUTPUT, XLR, and Headphone output potentiometers. You can set volume control range, with the default being 0 for the MIN and 100 for the MAX.

III. EXP2 External Pedal Setting

- ① The Arena 2000's EXP2 Jack supports the connection of either an external expression pedal or a dual footswitch pedal.
- ② The EXP2 is set up in the same way as the EXP, but the EXP2 has only one state and does not support On/Off.
- ③ When the EXP2 is connected to a dual-footswitch pedal, the two footswitches are used as a Bank switches.
- ④ Finally, press the STORE button to save the settings of your tone, CTRL, and EXP to the preset.

NOTE:

1. Please use the TRS stereo 1/4" connection cable when plugging an external pedal into the EXP2 Jack.
2. The EXP2 Jack will automatically determine whether an expression pedal or a dual footswitch switch pedal is plugged in. If you want to change the pedal type during use, make sure to connect the cable to the pedal first, and then connect to the EXP2 Jack, so as to accurately identify the pedal type.
3. EXP1 On/Off and EXP2 work together to flexibly control parameters in real-time, but it is recommended not to set more than one pedal state to control the same parameter, otherwise it will cause confusion.

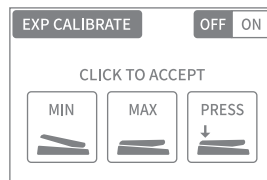
IV. EXP Pedal Calibration

- ① Press the **EXP** button and enter the “EXP CALIBRATION”, then determine the MIN and MAX positions as prompted on the screen.

It must be calibrated before using the external EXP pedal.

- ② The pressing force of the EXP1 pedal to switch On/Off state can be set on the “EXP CALIBRATION” screen. While holding down the front end of the pedal with appropriate force, press the **Value Knob** to confirm the force.

Warning: If the pressing force is too light, the MAX position may trigger the On/Off switch by mistake.



Looper

Arena2000 can record your playing and create loop phrases that are up to 60 seconds long by built-in looper.

Press the **LOOP** button to enter/exit the LOOP interface. The "LOOP" is at the end of the effect chain, so any effects you use in presets can be recorded in the LOOP.

Footswitch A: Footswitch A: Press for the first time to start the first layer recording, press for the second time to start the loop playback, then press again to add overdubbed recording.



Footswitch B: Press once can stop playback, press and hold for 2s can clear the recorded loop.

Footswitch C: Three effects can be controlled: Reverse/Double Speed/Half Speed or can set to "Exit" function to return to the preset mode, which allows you to use the LOOP and still switch the presets with the footswitch.

Tips: By setting a CTRL footswitch to enter LOOP in Control Mode, you can re-enter the LOOP interface from the preset page without pressing the **LOOP** button.

Drum Machine

Arena 2000 has 40 built-in drum styles that can be used with LOOP to create a one-man-band effect!

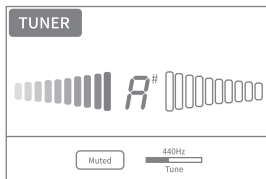
- ① Press the **DRUM** button to enter/exit the DRUM interface.
- ② Use the **Value Knob** to select the rhythm type.
- ③ Footswitch A controls Play, Footswitch B controls Stop. Footswitch C controls Tap.
- ④ Users can rotate the **Value Knob** to change tempo. The tempo range is from 40BPM-240BPM. (Note: The BPM of the drum is an independent BPM parameter that is not shared with the preset BPM)

Tuner

There are 3 methods to enter the tuner page.

- ① Press the TUNER button on the panel to enter the tuner page, and then press any footswitches to return.
- ② Set a CTRL footswitch to enter the tuner page and press it again to return.
- ③ Under the Preset Switching Mode (the ring of footswitch lights up white), long-press this footswitch to enter the tuner page and press it again to return.

Muted/Bypass: Use the **Value Knob** to switch modes. Bypass mode outputs dry signal while the muted mode allows silent tuning.



Tune: Set the A4 Range: 435 Hz - 445 Hz. The default is 440 Hz. Adjust by rotating the **Value Knob**.

Output Setting

Click the **OUTPUT** button can set whether XLR and 1/4 " outputs have CAB simulation effect. You may need to turn off the Cab simulation effect in the following situations:

Output to the pre-amp or power-amp of a guitar amplifier.

Add CAB simulation to the recording in DAW.

Use other CAB simulation devices.

This setting only changes whether CAB effects are assigned to XLR or 1/4 " outputs and does not turn off the CAB block that is already enabled in preset by default. Therefore, the user can choose the XLR with CAB simulation for output to the mixer, and the 1/4 "without CAB simulation for output to the guitar amp. When XLR and 1/4 " settings are different, the CAB block position is automatically moved to the last position in the effects chain.

Locking the Touch Buttons

- ① Press **CTRL** and **OUTPUT** buttons at the same time to lock all panel touch buttons.
- ② Pressing the touch buttons will not be operated after locking, and the "A" light of Arena's logo in the upper left corner will be completely off to indicate that it is currently locked.
- ③ Once press **CTRL** and **OUTPUT** buttons at the same time to unlock, the "A" backlight of Arena indicates that it has been unlocked.



Locked mode



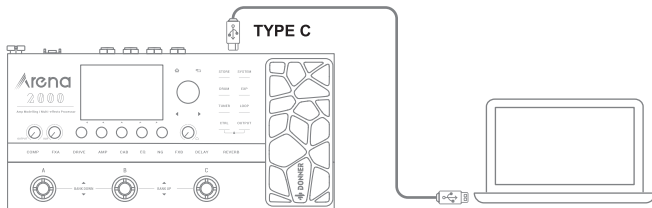
Unlocked mode



Arena 2000 Editor Software

- ① The Arena2000 can be used to edit tones, backup presets, and update firmware through Generic Donner Control. Please download [Generic Donner Control] at <https://www.donnermusic.com/zh-CN/support/downloads> to experience the full functionality of Arena2000 and get the latest firmware version.
- ② Follow the instructions to install the software on the computer and then connect the computer to the Arena 2000 by using a USB Type C cable.

The Arena2000 PC control software currently only supports Windows and some MacOS systems.



The Arena 2000 works as a USB audio port for your computer, allowing you to record your musical instrument and playback sounds in your computer.

- Set the input/output device as "GA2000 Audio" according to the recording software you are using.
- When recording an instrument via Arena 2000, please enter **SYSTEM > USB AUDIO** and set the left and right outputs of Arena 2000 to DRY or EFFECT, as well as setting the recording and playback volumes.

FAQ:

1. If Arena2000 cannot be recognized as an input or output device in your DAW software on Windows, please install the latest ASIO4ALL driver and use it.
2. Make sure that your USB docking station can output a current of 1000mA or more if your computer with only a USB-C port. Because when multiple devices are connected to a USB docking station, the Arena2000's USB port may not have enough allocated current and the device will stop functioning correctly.

Mobile App for Bluetooth wireless Tone Editing

- ① Arena 2000 allows users to edit tone and presets through Mobile APP Bluetooth (Smartphones and tablets).
- ② To avoid misconnection during use, users can lock Bluetooth on the Arena 2000: **SYSTEM > BLE Lock**.
Once locked, the App will not be able to operate the Arena 2000.
- ③ Download the App: 1. Scan the QR code. 2. Search "Arena Tone" on the Google Play.



For IOS



For Android

Connect External Midi Devices

- ① A five-pin midi in socket can send MIDI data to external MIDI-compatible devices via a MIDI cable.
- ② Press **SYSTEM > MIDI** to enter the MIDI control interface, you can see the PC and CC control list and adjust the PC code corresponding to the presets.

System Global Settings

Press the **SYSTEM** button to enter global settings, the controlled parameters are valid and saved for all presets.

INPUT	Default is 0dB, Range: -60dB to +6dB. Some high output guitars may overload the input and cause distortion, so you may want to reduce the input level.
USB Audio	The level of Rec Vol and Play Vol, Left and Right output (Dry or Effect)
FX Trail	Delay and Reverb trail keeps or not when switching presets.
Screen	Brightness
MIDI	Set the PC and CC of MIDI IN to match the corresponding preset
Info	Firmware version
Reset	Factory Reset (All data will be deleted! Make sure to back up data before restoring factory reset.
BLE Lock	The App will not be able to operate the Arena 2000 when BLE Lock is enabled.

SPECIFICATION

Sample Rate: 44.1kHz
AD/DA: 24bits
Presets: 150
Loop: 60Sec
Display: 3.5" TFT 320x480

Input Level: 1.85V
Input Impedance: 470K Ω
Unbalanced Output Level: 2.6V
Unbalanced Output Impedance: 100 Ω
Phone Output Level: 1.2V

Phone Output Impedance: 10 Ω
Balance Output Level: 2.4V
Balance Output Impedance: 200 Ω
AUX Input Level: 2.3V

AUX Input Impedance: 10K Ω
Power: 9V Negative Tip 500mA
Dimensions: 292.5mm x 147.2mm x 50.9mm
Weight: 1.32kg

FCC STATEMENT

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

IC STATEMENT

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The term "IC: " before the certification/registration number only signifies that the Industry Canada technical specifications were met.

This product meets the applicable Industry Canada technical specifications.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20centimeters between the radiator and your body.



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Made in China



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