VDS-2d

Dual Mod

User Manual

For Firmware V1.0.2



VALETON

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WELCOME

Thank you for purchasing a VALETON product.
We know it might be tedious but please read this manual carefully to get the most out of your VDS-2d.
Please keep this manual for future reference.

SAFETY INSTRUCTIONS

Precautions

PLEASE READ CAREFULLY BEFORE OPERATING THE DEVICE.
Please keep this manual in a safe place for future reference.
Please always follow the basic precautions listed below.
These precautions include, but are not limited to, the following:



Definition of intended use

Power supply & power cord

Please check the voltage specification on the device or device power adaptor match your power supply network.
Please be sure to use the device just with an adequate power supply, such as original supplied power adaptor.
When using a 3rd party power adapter, please make sure the power adapter fits the device's power requirement. Use of an adapter other than that specified could damage the unit or cause malfunction and pose a safety hazard, such as incorrect polarity would cause the fire hazard.
Valeton will not be responsible for physical injury to you or others, or damage to the device or other property.
When disconnecting the adapter from an outlet, please always pull the connector itself. Pulling the cord will cause damage to the unit.
Make sure to separate the power adapter and store in a safe place.
Please remove the electric plug from the outlet when the device is not to be used for extended periods of time, or during electrical storms.
Please be sure to connect to an appropriate outlet with a protective grounding connection.

Do not open

This device contains no user-serviceable parts. Do not open the device or attempt to disassemble the internal parts or modify them in any way.
Opening the case may expose you to dangerous voltages, or other hazards.
Opening the casing or performing self-repairs on this device will result in the loss of the warranty eligibility for this device.
If it should appear to be malfunctioning, please discontinue use immediately and contact our service team.

Water warning

Do not expose the device to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the device, turn off the power immediately and unplug the power cord from the AC outlet.
Please never insert or remove an electric plug with wet hands.

Fire warning

Please do not place any burning items or open flames near the device, since they may cause a fire hazard.

Electromagnetic fields warning

Please avoid operating the device within significant electromagnetic fields. Failing to do so may result in noise, device malfunction, or even loss of data etc.

Hearing loss

Please avoid setting all volume levels to their maximum, specially with using headphones. Depending on the condition of the connected devices, doing so may result in feedback that can cause hearing loss and damage the speakers or headphones.
Before connecting the device to other devices, please turn off the power for all devices. Also, before turning the power of all devices on or off, please make sure that all volume levels are set to the minimum. Failing to do so may result in hearing loss, electric shock, or device damage.

Location

Please keep away form children, or be accompanied by an adult. The following may cause choking hazard:

- Swallowing of small parts
- Plastic covers and other packaging material

While using, please do not cover the device with any cloth, or block any jack of the device.
The device and power supply will become warm with extended use.
Please avoid using the device in any of the following conditions that could cause malfunction:

- Extremely hot or cold places
- Sandy or dusty places
- Contact with corrosive gases or salt air
- Places with extreme vibrations

Before moving the device, please be sure to remove all connected cables, and power adaptor.
Depending on the material and temperature of the surface on which you place the device, its rubber feet may discolor or mar the surface.

Maintenance

Please remove the power plug from the AC outlet while cleaning the device.
Please use a soft cloth to clean the panels if they become dirty. If necessary, slightly moisten the cloth.

Never use cleansers, wax, or solvents such as paint thinner, benzene or alcohol.

Operation

Please do not apply excessive force to the knobs, switches, jacks, and other controls.
Please do not apply excessive force to the screen (if applicable) or casing, which may cause malfunction.
Please do not expose the unit to strong impact or drop it.
Please do not place foreign objects (liquid or solid) into the device.

Malfunction

If any of the following problems occur, immediately turn off the device and disconnect the electric plug from the outlet:

- The device is dropped or damaged
- The power cord or plug becomes frayed or damaged
- The power adaptor malfunction
- Unusual smells or smoke are emitted
- Some object has been dropped into the device
- There is a sudden loss of sound during use of the device
- Cracks or other visible damage appear on the device
- The device has other obvious signs of malfunction (e.g. can not turn on, knobs can not work, volume is too low, etc.)

Then please contact our service team.

About disposal

While disposing of this product, please take them to applicable collection points, for proper treatment, in accordance with your national legislation.

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.
Ensure that plastic bags, packaging, etc. are properly disposed of.
Please do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling.

Disposal of your old device



This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.
For more information about collection and recycling of old products, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.
This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE Directive - Waste Electrical and Electronic Equipment) as amended from time to time version.



Observe the disposal note for documentation in France.

Disposal of batteries

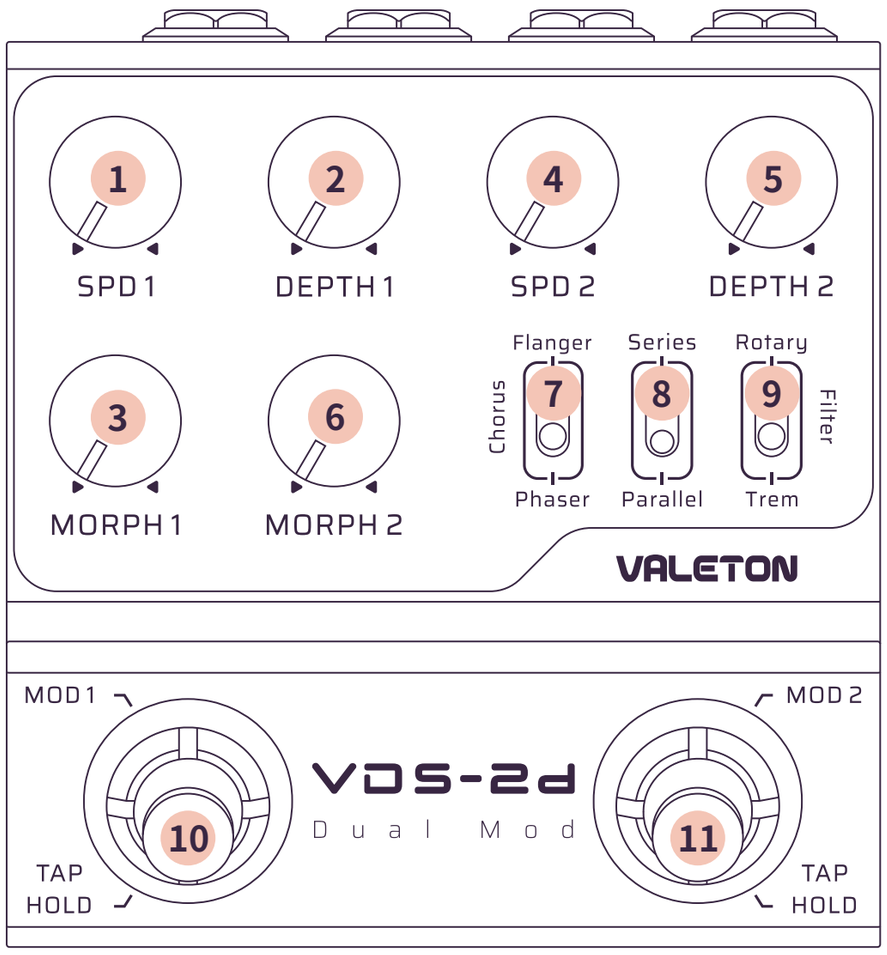


Batteries must not be discarded or incinerated, but disposed of in accordance with local hazardous waste disposal regulations.

Service Contact

Please prepare information including the model name, serial number, specific symptoms related to the malfunction, your name, address and telephone number, etc.
You can contact the store where you bought the device, or contact Valeton support (service@valeton.net)
Please use this device according to the manual provided. Any other use, as well as use under other operating conditions, is considered improper use.
Valeton cannot be held responsible for damage caused by improper use or modifications to the device.

CONTROLS



1. SPD 1

Adjusts the modulation rate of the left MOD 1 effect.

2. DEPTH 1

Adjusts the modulation depth of the left MOD 1 effect.

3. MORPH 1 Description

Series Mode:
MORPH 1 adjusts the MIX (wet/dry ratio) parameter of MOD 1.
Parallel Mode:
MORPH 1 controls the final blend ratio between MOD 1 and MOD 2.
Signal flow: The input signal splits into MOD 1 and MOD 2 paths. MORPH 1 then blends the processed MOD 1 and MOD 2 signals at a defined ratio for output.
*In Parallel Mode, if only MOD 1 is active, MORPH 1 adjusts the MIX (wet/dry ratio) of MOD 1.

4. SPD 2

Adjusts the modulation rate of the right MOD 2 effect.

5. DEPTH 2

Adjusts the modulation depth of the right MOD 2 effect.

6. MORPH 2

MORPH 2 is a modulation controller for the MOD 2 effect type. Its function varies depending on the selected MOD effect:
Rotary Mode: Adjust the position of the rotary speaker pickup microphone to change the high/low frequency energy ratio of the captured signal.
Filter Mode: Smoothly control the filter Frequency parameter for seamless, continuous timbre transitions.
Tremolo Mode: Controls the tremolo waveform (Shape). Turning the knob clockwise cycles waveform: Triangle → Square.

7. MOD 1 Type Select

Switch positions from top to bottom: Flanger / Chorus / Phaser.

8. Series/Parallel Switch

Toggles the signal routing of the two modulation effects. Top position = Series; Bottom position = Parallel.

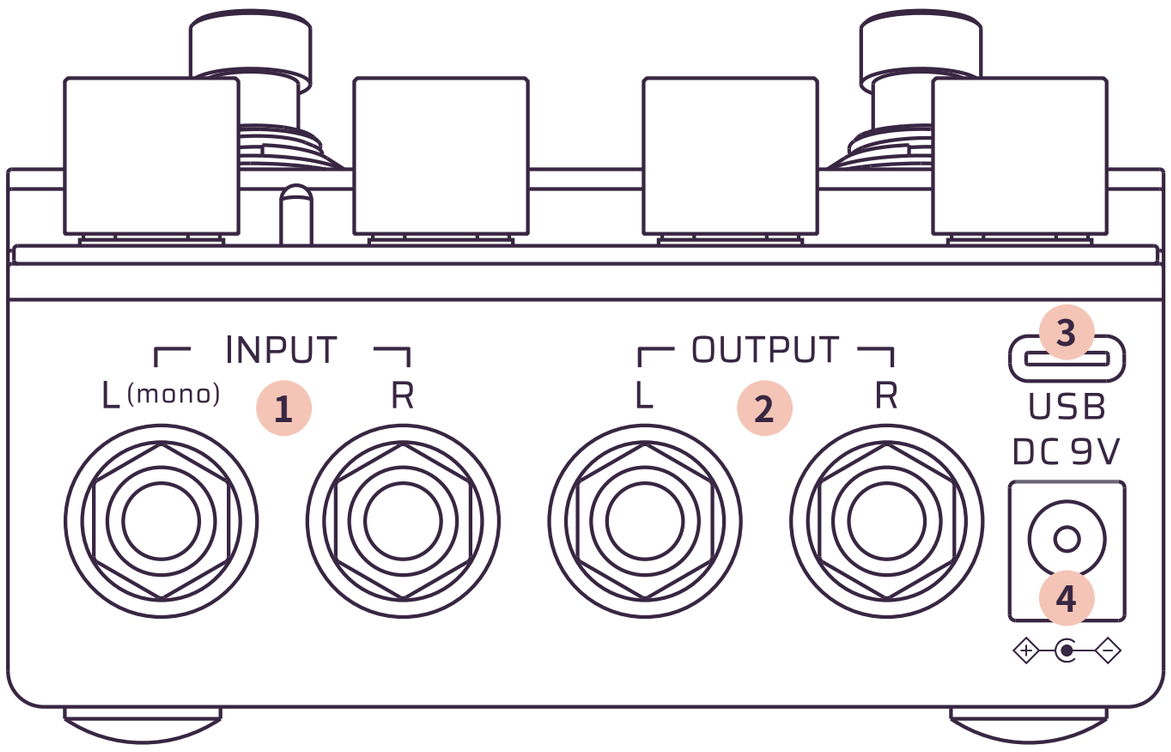
9. MOD 2 Type Select

Switch positions from top to bottom: Rotary / Filter / Tremolo.

10. MOD 1 Footswitch
Short press the footswitch to turn on or off the right modulation (MOD 1) effect; when on, the LED ring flashes blue.Long press the footswitch to enable the Tap Tempo function; when enabled, the LED ring flashes green.

11. MOD 2 Footswitch
Short press the footswitch to turn on or off the left modulation (MOD 2) effect; when on, the LED ring flashes blue.Long press the footswitch to enable the Tap Tempo function; when enabled, the LED ring flashes green.

CONNECTORS



1. INPUT
L(mono): Left input (also used as mono input).
R: Right input.
Mono operation: Connect instrument/source to L(mono) only.
Stereo operation: Connect both L(mono) and R inputs for full stereo sound.

2. OUTPUT
L: Left output.
R: Right output.
Mono operation: Output signal via L jack only.
Stereo operation: Connect both L and R outputs to speakers or other devices for stereo.

3. USB Type-C
Connect to PC for firmware updates.

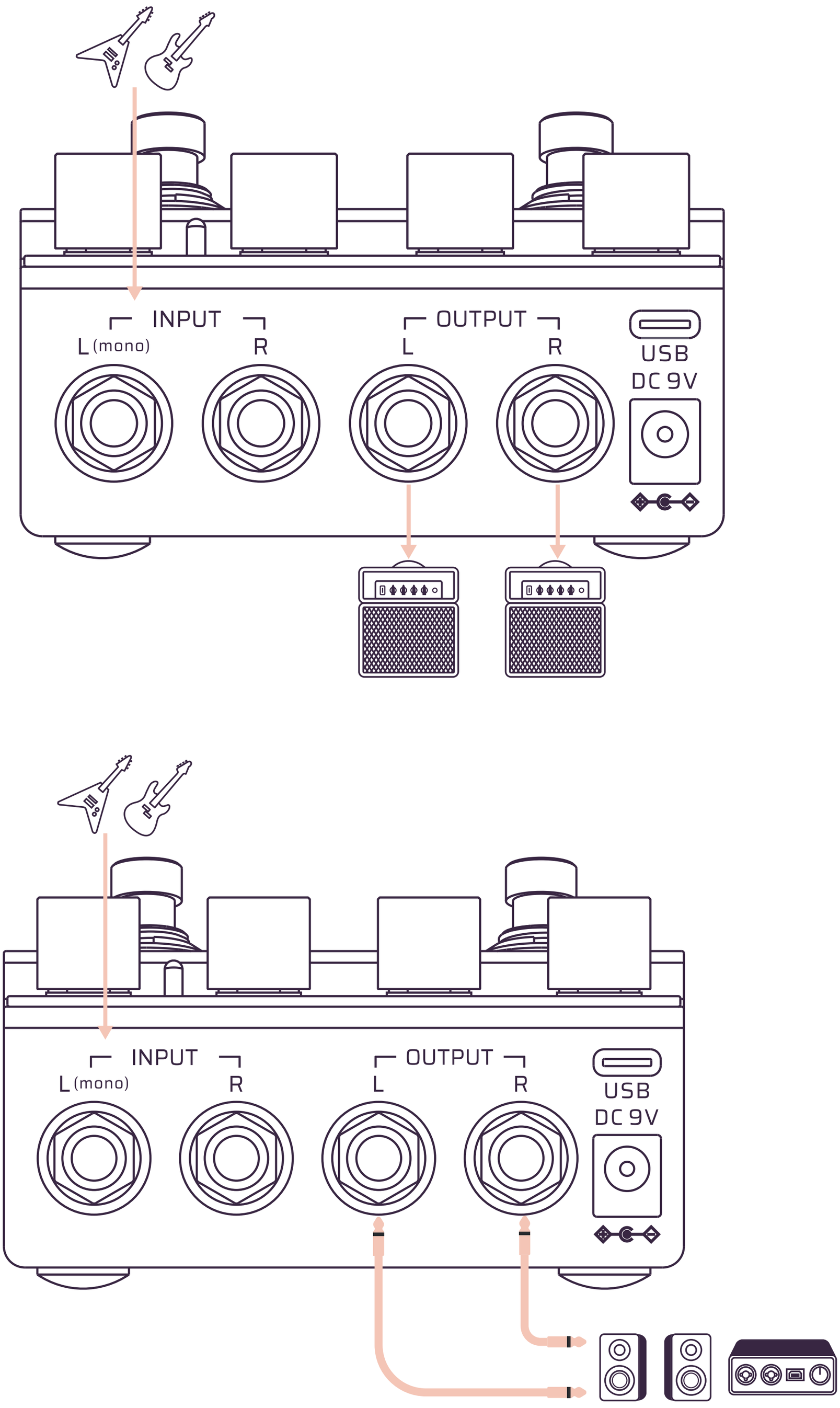
4. DC 9V
Standard DC power input jack.

BYPASS SELECTION

Power on while long-pressing both footswitches. Once both LED rings light up, select bypass type by LED colour:
Green = True Bypass; blue = Buffered Bypass with tail spill.
Once desired bypass mode is selected, press both footswitches to confirm (LEDs turn off). The setting is saved, you may use the pedal normally afterwards.

APPLICATION

Dual-channel stereo output. Connect to two guitar amplifiers or monitoring systems for immersive stereo tones with rich spatial depth.



SPECIFICATIONS

Input Jacks (L/R)
2 × 6.35mm (1/4”) TS jacks

Output Jacks (L/R)
2 × 6.35mm (1/4”) TS jacks

Input Impedance
500kΩ

Output Impedance
100Ω

USB
USB 2.0 Type-C

Power
DC 9V, 5.5×2.1mm, center negative, 300mA

Dimensions
96mm (L) × 100mm (W) × 44.5mm (H)

Weight
449g