VCM DUB SIREN
COMMON GROUND

POWER SUPPLY
12V DC 100mA.
2.1x5.5mm barrel jack.
Center positive.
⊖-◉-⊕

RATE
Controls the speed of the modulation signal (LFO).

DEPTH
Controls the amount of modulation signal (LFO) that affects the pitch of the audio oscillator.

AUDIO OUTPUT
1/4" (6.35mm) mono (TS) Jack.

AMNT
Controls the SWEEP signal level. It can also be used to manually control all selected CV parameters at once (see QUICK TIP).

PITCH
Controls the base pitch of the audio oscillator.

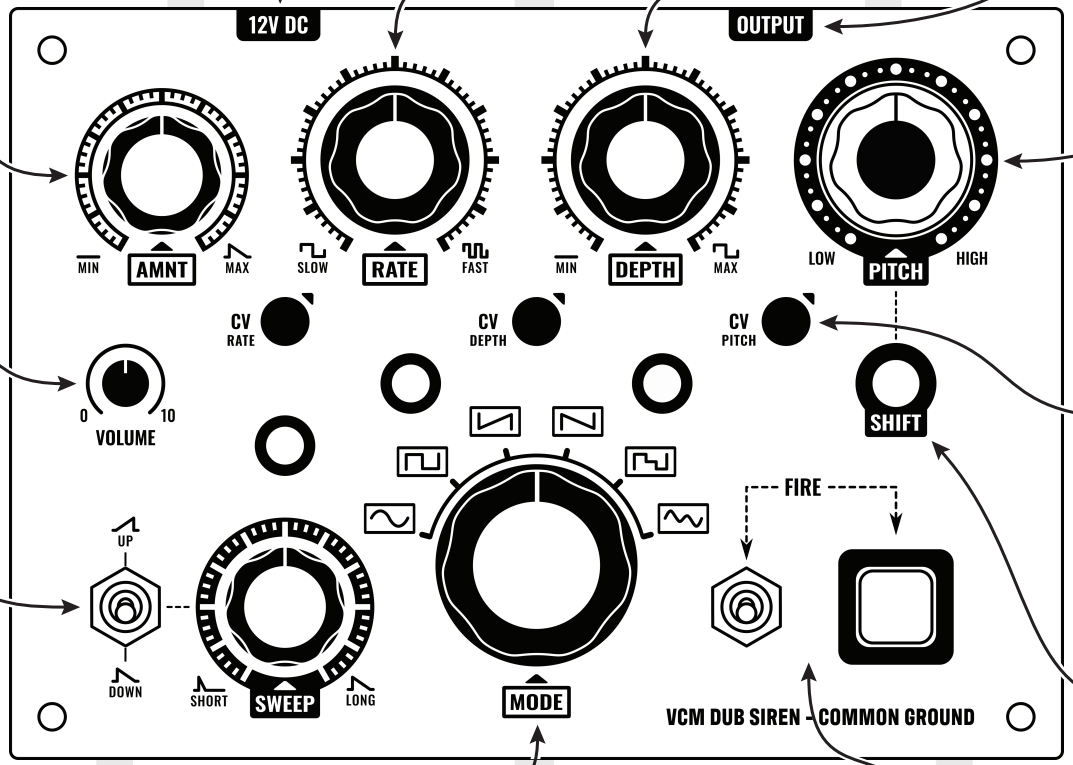
VOLUME
Output level.

CV BUTTONS
The CV buttons control whether the SWEEP signal has a modulation effect on each of the individual parameters: RATE, DEPTH and PITCH. If a CV button is pressed, the SWEEP signal will modulate the corresponding parameter.

SWEEP
Potentiometer: controls the speed of the SWEEP signal, from instantaneous up to 10 seconds.

Toggle switch: selects the direction of the SWEEP signal, ascending (UP) or descending (DOWN).

PITCH SHIFT
Modifies the pitch of the audio oscillator momentarily (as long as the button is held).



MODE
Selects the modulation signal (LFO) waveform. From left to right:

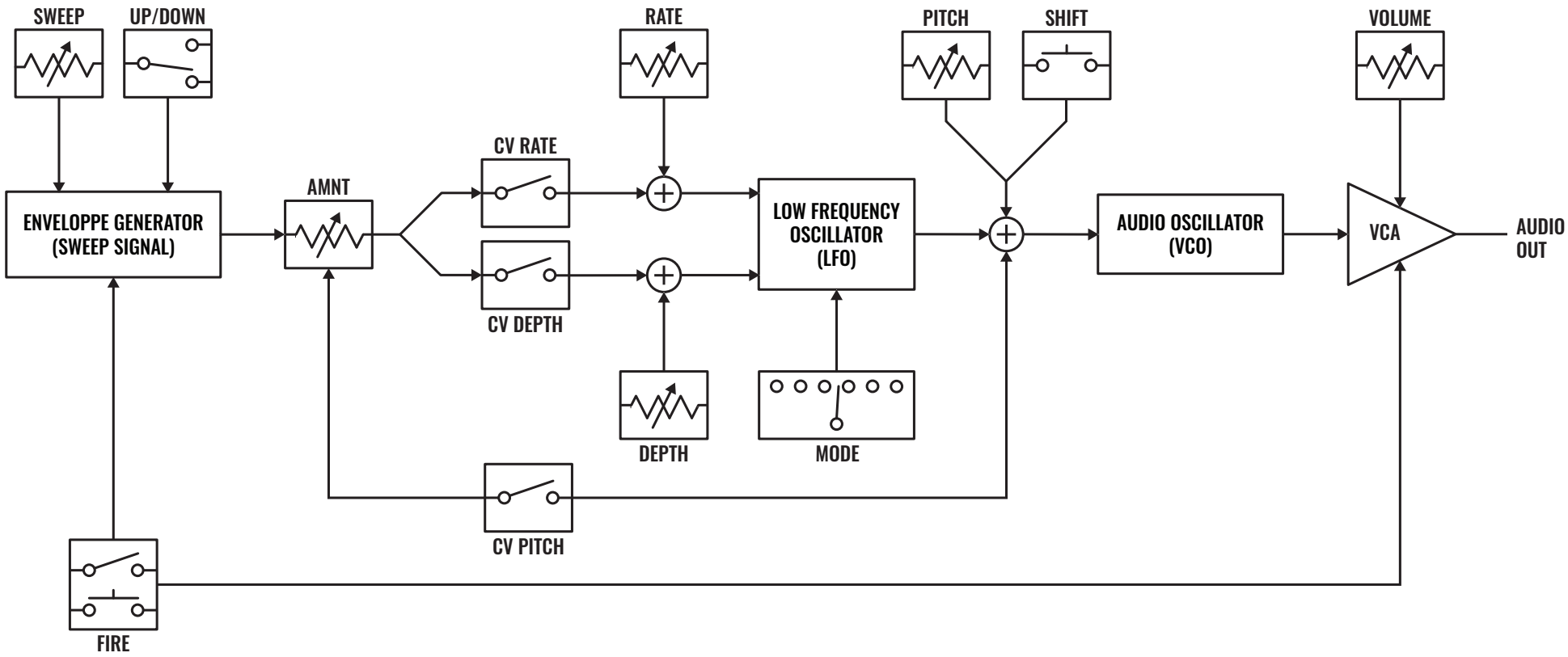
Sine // Square // Ramp // Sawtooth // Stepped square // Sine + Octave

FIRE
Siren On/Off. Toggle switch for continuous power (left) and push button for momentary trigger (right).

QUICK TIP!
When the SWEEP signal is set to be ascending (UP) and the SWEEP knob is turned all the way down (SHORT), the SWEEP signal reaches its maximum level almost instantaneously. If one or more CV BUTTONS are pressed, the value of the corresponding parameters is modulated by the SWEEP signal level, which can be directly controlled using the AMNT potentiometer. This allows to control several parameters (RATE, DEPTH and/or PITCH) only by twisting the AMNT knob!

Technical specifications:
Power supply: 12V DC
2.1x5.5mm barrel jack connector
Center positive ⊖-◉-⊕
Current draw: less than 100mA
Audio output: 1/4" (6.35mm) mono (TS) Jack
Max. output level: 1.3V_{RMS} (4.5V_{pp})
Output impedance: 100 ohm
Size: 165x125x75mm

BLOCK DIAGRAM



ADDITIONAL INFO:

The VCM Dub Siren is a 100% original design that draws inspiration from the classic analog drum synths and embraces the spirit of modular synthesizers. It combines analog circuitry with a custom-programmed digital LFO exclusively designed for this unit. Its built-in voltage control paths provide an incredible range of dynamic and ever-changing siren sounds at the push of a button. With an endless amount of possibilities, the VCM Dub Siren allows to generate both classic and experimental siren sounds, making it the perfect addition to any studio or live setup.

Designed and manufactured by Common Ground in Madrid, Spain

INSTRUCTIONS FOR USE:

Audio connections: To ensure proper connection of your siren, follow these guidelines:

1 - Connect the siren to a MONO UNBALANCED LINE input using a MONO (TS) Jack. Although a stereo/balanced (TRS) Jack is compatible, it will result in an unbalanced connection.
2 - If necessary, the siren can be connected to mono BALANCED line inputs using a MONO (TS) Jack. However, please note that this connection will be unbalanced.
3 - You can also connect the siren to STEREO LINE inputs, but be aware that it will only output a signal on the left channel.
4 - DO NOT connect the siren to MIC inputs.
5 - For optimal noise reduction, turn the volume of the siren all the way up and make adjustments in the corresponding input channel of the mixer/preamp.

Power supply: It is recommended to use the provided power supply. Alternatively, you can use an equivalent power supply (12V DC) that meets the following specifications:

- It should be capable of delivering at least 100mA of current.
- It must have a 2.1x5.5mm CENTER POSITIVE barrel jack connector.

If you are unsure whether your power supply is suitable for the siren, please reach out to us for clarification before attempting to plug it in. Using an incompatible power supply could potentially damage the unit.

If you experience any issues or have any questions regarding the siren, please don't hesitate to reach out to us at:

Instagram: @commonground.sound
Email: commonground.electronics@gmail.com