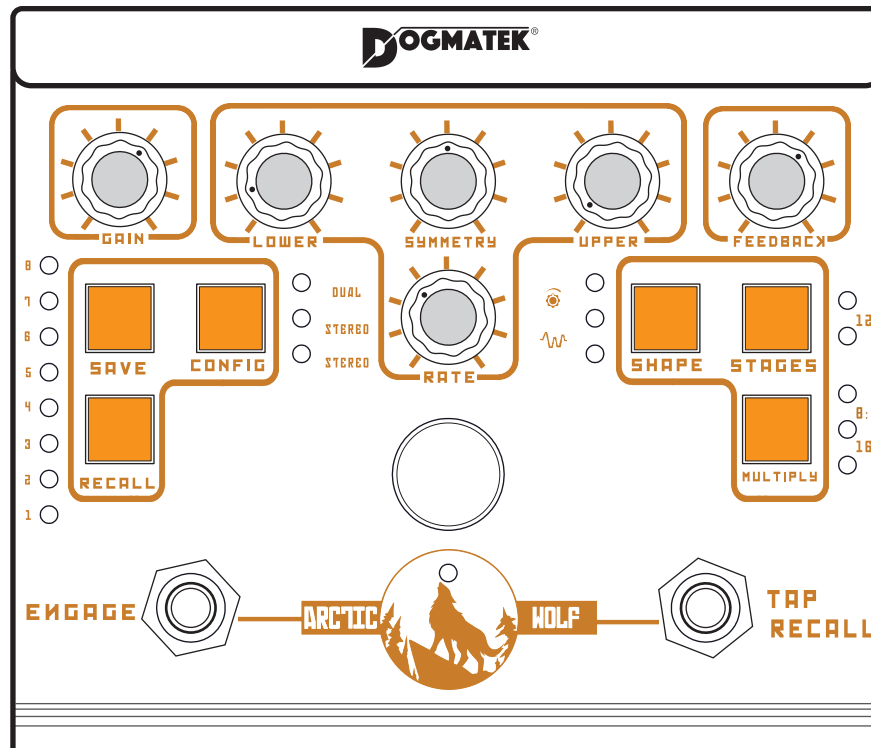


Congratulations on choosing the ARCTIC WOLF TWIN MODULATOR. This Manual will guide you in how to use and setup your ARCTIC WOLF.



CONTENTS

Front Panel	2
Back Panel	3
Controls	4
Waveforms	5
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Input Connections 02	8
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LOWER: Adjust how long the waveform stays at the bottom before phasing up again

SYMMETRY: Adjust the rise time or fall time of the waveform. Sharp rise and slow fall or slow rise and sharp fall

CONFIG: Choose from the following input/output configurations:

RATE: Adjust the phase speed, from very slow once every 30secs to ring modulation like speeds of 100 times a second (100Hz)

UPPER: Adjust how long the waveform stays at the top before phasing down again

FEEDBACK: Dial it up for more intense phasing

Mono in Dual out - Either input, Either Output

GAIN: Adjust for unity or up to 18dB of gain

SHAPE: Choose 1 of 5 waveforms for different phase sounds

Mono in Stereo out- Either Jack input,

The 2 outputs are out of phase and create crazy stereo phasing (hook up 2 amps!)

Stereo in Stereo out - Input 1 feeds output 1, Input 2 feeds Output 2,

The 2 outputs phase out of phase for crazy stereo effects Great for keyboards or post production, or have 2 guitars through the same pedal!

In1/Out1 = Phase-Trem, In2/Out2 = classic phaser

Get almost vibrato sounding effects from channel 1, these are much more pronounced at high speeds. CH2 is a classic phaser

Triangle: Classic phase
Square: Gate like phase
Sine: Swirling lush phase
S/H: Robotic random phase
Manual: Set the phase for filter like sounds

STAGES: Choose from 4, 6 or 12 stages of phasing
The more stages the deeper and more intense the sound.

*In Stereo modes only 4 and 6 are available

1-8 LEDs: Indicate which position you are saving or recalling from

If an LED is on, then you are currently in recalled settings.

If the LED goes out, then there are no settings to be recalled from the position selected

The LED will Flash then go out to indicate that settings have been saved in the current position

*Return RATE to 0 to return to current settings
- Exit recall -

RECALL: Press once to recall saved setting 1
Press twice for setting 2 and so on.
Settings are recalled after 1.5secs

ENGAGE: Soft touch ,true electronic bypass of both channels

SAVE: Press once to save the current settings in position 1
Press twice to save settings in position 2 and so on
Press 9 times to abort save
*Gain is not saved

TAP/RECALL: Powers up in RECALL mode.

*only the square RECALL switch lit

Tap the switch once to recall setting 1,
Tap it twice to recall setting 2 and so on...

HOLD down for 2secs, switch is now TAP TEMPO.

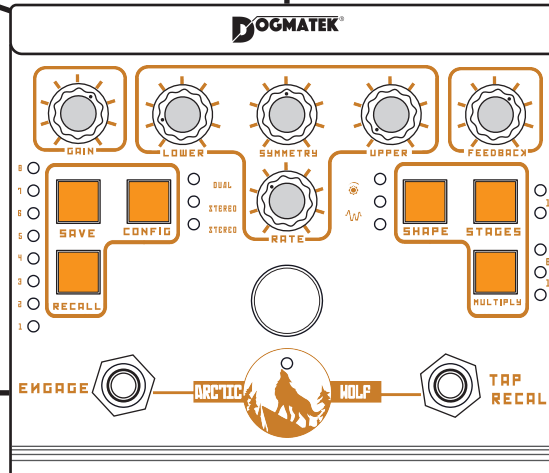
*all square switches lit

Tap the speed you want your phasing (at least 2 taps required), then use MULTIPLY to speed it up.

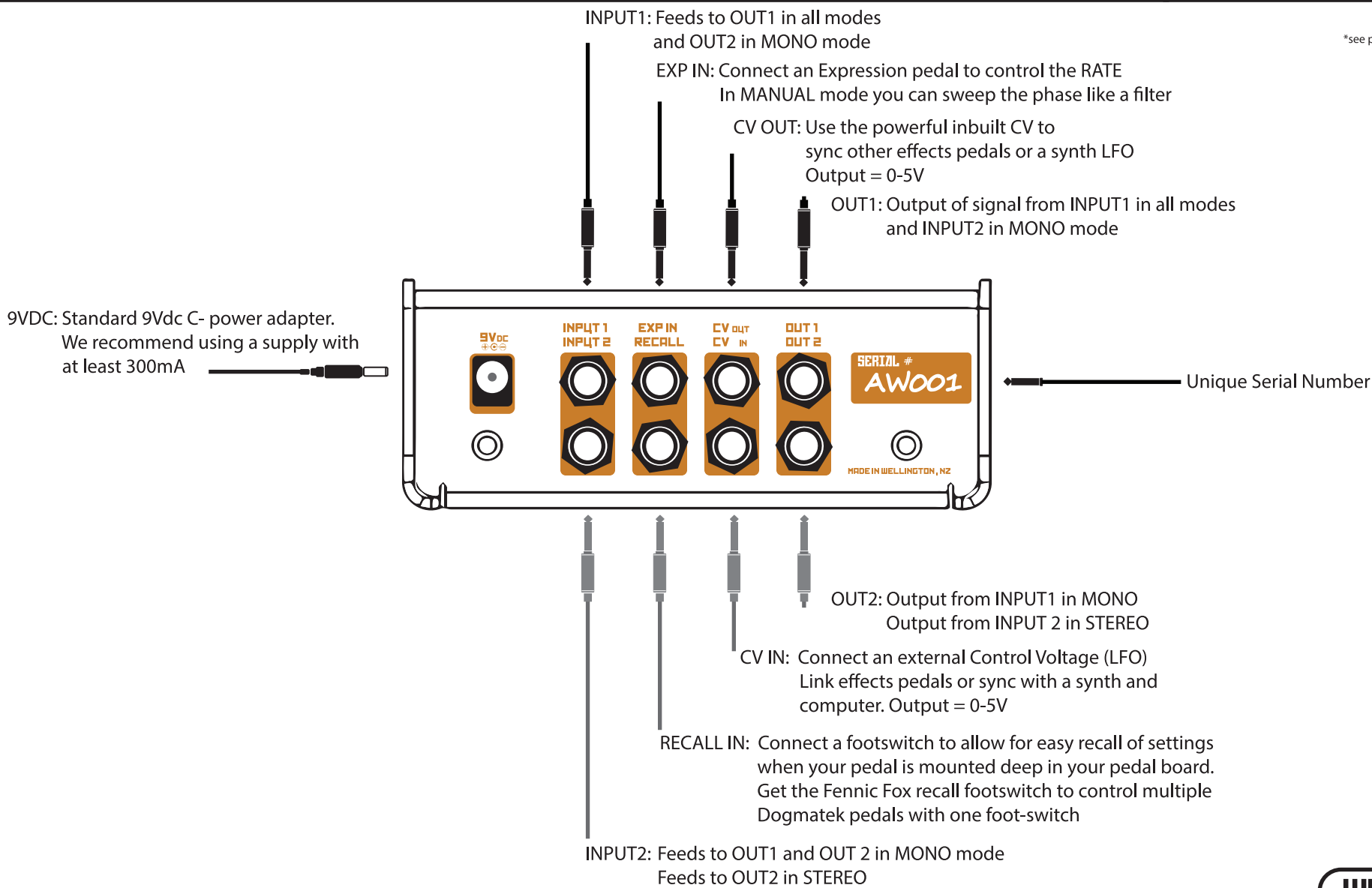
BIG GREEN LED:
Indicator for current phasing speed

MULTIPLY: Speed up your tap tempo speed.

Twice as fast to 16 times as fast as you tapped

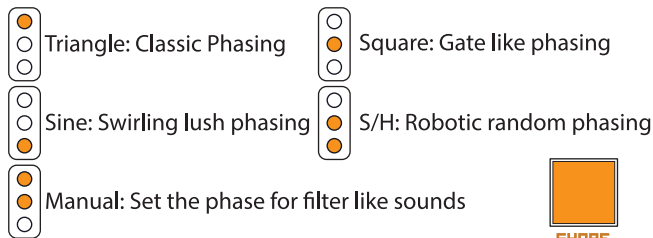


*see pages 6, 7 and 8 for connection diagrams



SWITCHES

SHAPE: Choose 1 or 5 waveforms for different phasing sounds



* only 4 or 6 selectable in stereo modes

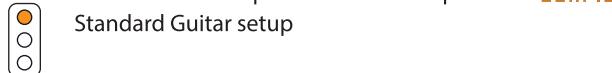
STAGES: Choose from 4, 6 or 12 stages of phasing



* see page 7 for connection diagrams

CONFIG: Choose from the following input/output configurations:

Mono in Dual out - Either input feeds both Outputs
Standard Guitar setup



Mono in Stereo out- Either Jack can be used as the input

The 2 outputs are out of phase and create crazy stereo phasing (hook up 2 amps!)

Stereo in Stereo out - Input 1 feeds output 1, Input 2 feeds Output 2

The 2 outputs phase out of phase for crazy stereo effects
Great for stereo keyboards or post production,
or have 2 guitars feed through the same pedal!

In1/Out1 = Phase-Trem, In2/Out2 = classic phaser

Get almost vibrato sounding effects from channel 1,
these are much more pronounced at high speeds.
CH2 is a classic 4 or 6 stage phaser

1-8 LEDs: Indicate which position you are saving or recalling from



If any of the LEDs are on, then you are currently in recalled settings at that position (1-8).

If the LED goes out, then there are no settings to be recalled from the position selected or you have exited recall

* Return RATE to 0 to return to current knob and switch settings - Exit RECALL *led goes out

SAVE: Press once to save the current settings in position 1

Press twice to save settings in position 2 and so on
Press 9 times to abort save



After 1.5sec the led will flash 3 times and go out indicating that your settings have been saved

*Gain is not saved



RECALL: Press once to recall saved setting 1

Press twice for setting 2 and so on
Press 9 times to abort recall



Settings are recalled after 1.5secs *led flashes once



If no settings are available in the selected location then the LED will go out and no settings will change

MULTIPLY: Speed up your tap tempo speed from double to 16 times.



The first press doubles the tap speed
The second press increases the original tap speed by 4 (4:1) and so on.
Press 6 times to return to the original tap speed

*leds go out



KNOBS

GAIN: Adjust for unity or up to 18dB of gain *Gain is not saved

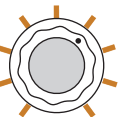
RATE: Adjust the phasing speed, from very slow once every 30secs to ring modulation like speeds of 100 times a second (100Hz)

UPPER: Adjust how long the waveform stays at the top before phasing down again

LOWER: Adjust how long the waveform stays at the bottom before phasing up again

SYMMETRY: Adjust the rise time or fall time of the waveform. Sharp rise and slow fall or slow rise and sharp fall

FEEDBACK: Dial it up for more intense phasing
* WARNING if 12 stages are selected and feedback is increased to full the unit will self oscillate



FOOT-SWITCHES

ENGAGE: Soft Touch, true electronic bypass of both channels
*LED ON indicates the Wolf is engaged

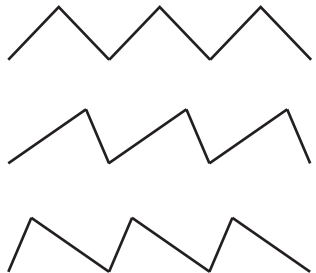
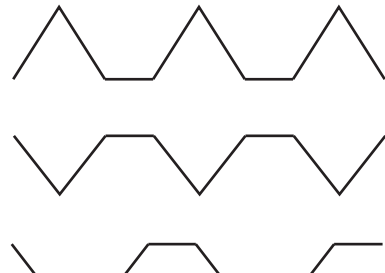
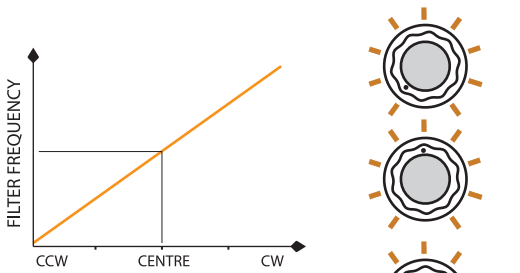
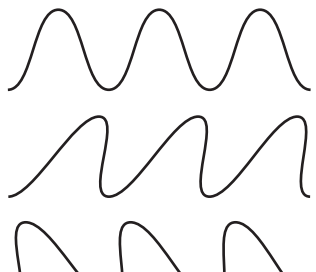
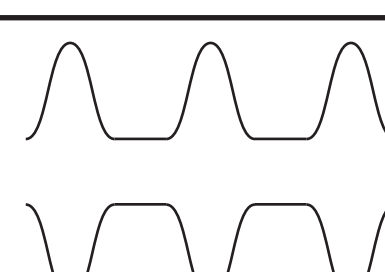
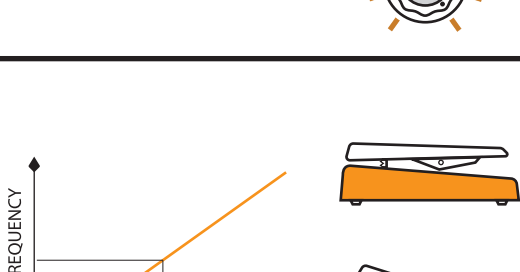
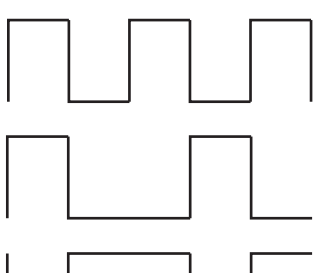
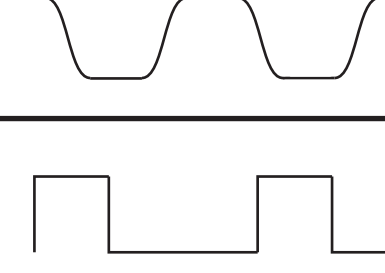
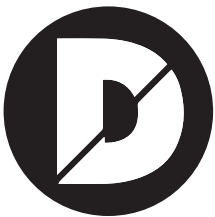
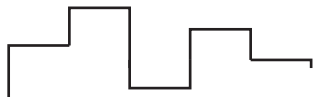

TAP/RECALL: Powers up in RECALL mode.
*only the square RECALL switch lit

Tap the switch once to recall setting 1,
Tap it twice to recall setting 2 and so on...

HOLD down for 2secs, switch is now TAP TEMPO.
*all square switches lit

Tap the speed you want your phasing
(at least 2 taps required), then use MULTIPLY
to speed it up.



<p>TRIANGLE WAVE</p>	 <p>Symmetry Centre</p> <p>Symmetry CW</p> <p>Symmetry CCW</p>	<p>TRIANGLE UPPER AND LOWER HOLD</p>  <p>Lower Hold</p> <p>Upper Hold</p> <p>Upper and Lower Hold</p>	<p>MANUAL SWEEP</p>	 <p>FILTER FREQUENCY</p> <p>CCW CENTRE CW</p> <p>RATE KNOB POSITION</p>
<p>SINE WAVE</p>	 <p>Symmetry Centre</p> <p>Symmetry CW</p> <p>Symmetry CCW</p>	<p>SINE UPPER AND LOWER HOLD</p>  <p>Lower Hold</p> <p>Upper Hold</p> <p>Upper and Lower Hold</p>	<p>MANUAL SWEEP EXPRESSION IN</p>	 <p>FILTER FREQUENCY</p> <p>Backward CENTRE Forward</p> <p>PEDAL POSITION</p>
<p>SQUARE WAVE</p>	 <p>Symmetry Centre</p> <p>Symmetry CW</p> <p>Symmetry CCW</p>	<p>SQUARE UPPER AND LOWER HOLD</p>  <p>Lower Hold</p> <p>Upper Hold</p> <p>Upper and Lower Hold</p>		
<p>S/H</p>	 <p>Symmetry has no effect on waveform</p>	 <p>Upper and Lower Hold</p>		<p>WWW.DOGMATEK.COM</p>

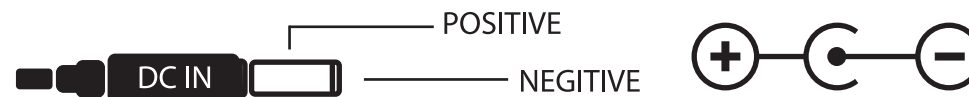
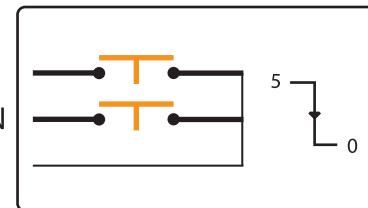
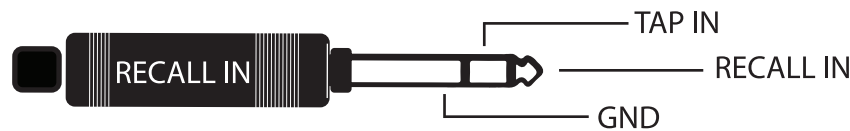
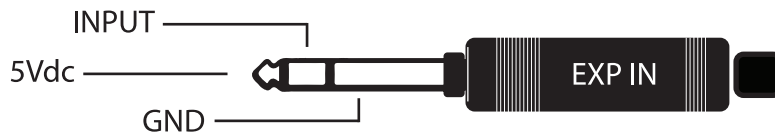
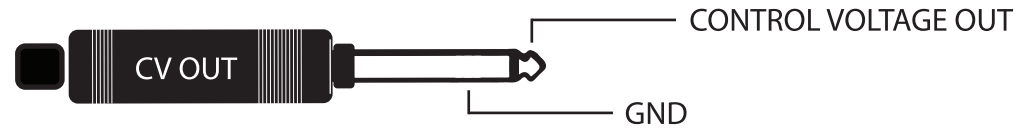
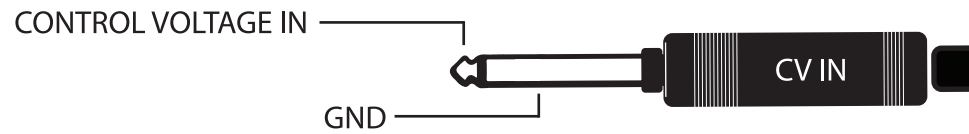
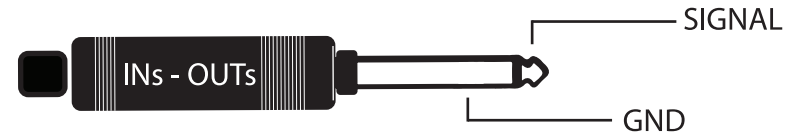
AW_01

JACKS

6.5mm (1/4")

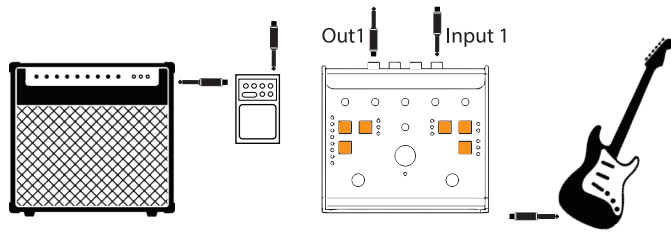
6

BACK PANEL JACKS



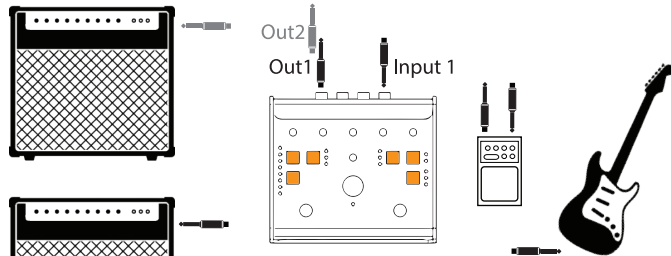
INPUT CONNECTIONS

MONO IN
MONO OUT



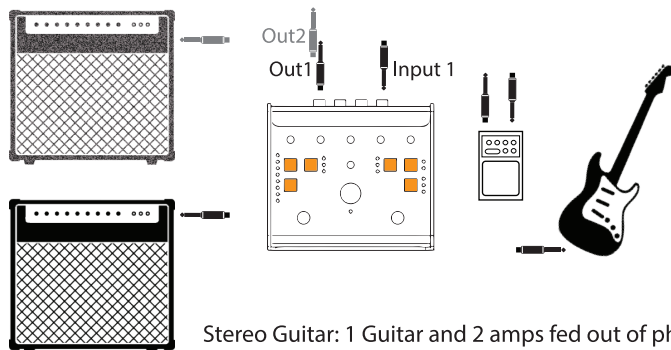
Classic setup: Guitar, pedals and amp

MONO IN DUAL OUT



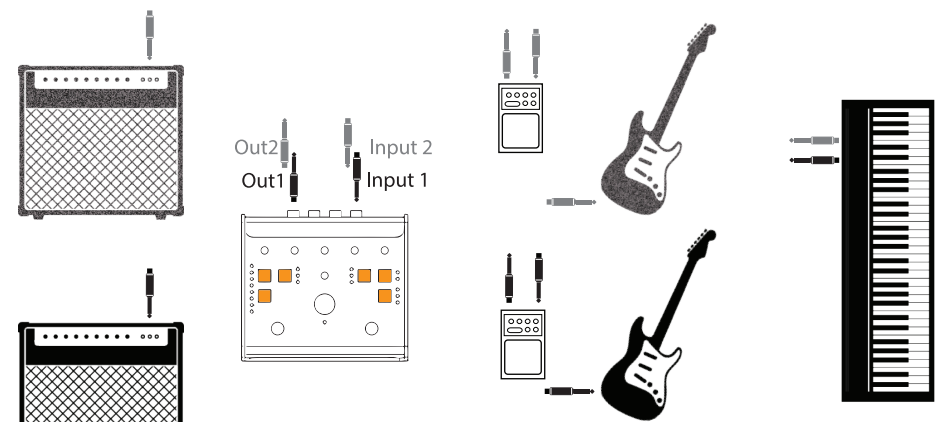
More Power: 2 amps with the same in-phase signal

MONO IN STEREO OUT



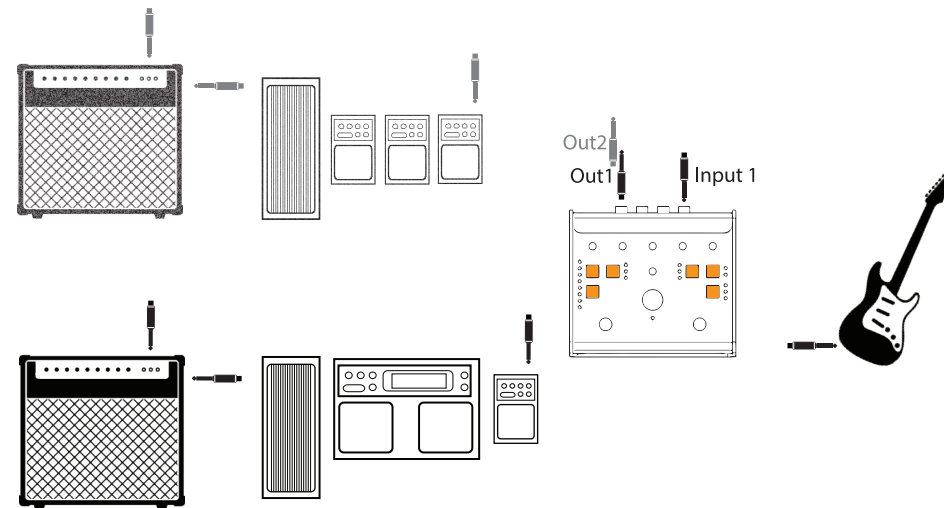
Stereo Guitar: 1 Guitar and 2 amps fed out of phase for stereo panning

STEREO IN STEREO OUT



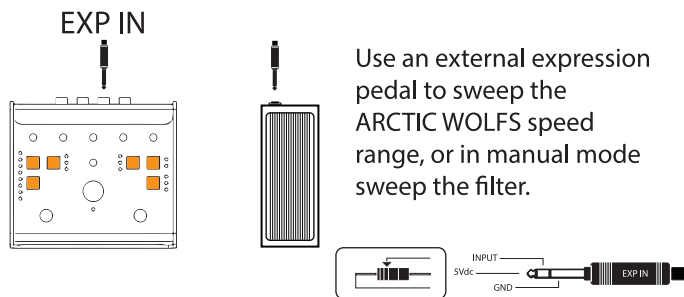
Dual Guitars: 2 Guitars kept separate, phasing in time but out of phase
Stereo Keyboard: 2 channels panning out of phase

STEREO IN STEREO OUT

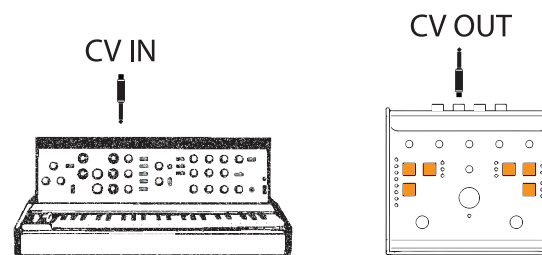


1 Guitar - Parallel effects: 2 signal chains for extra versatility. Fed out of phase

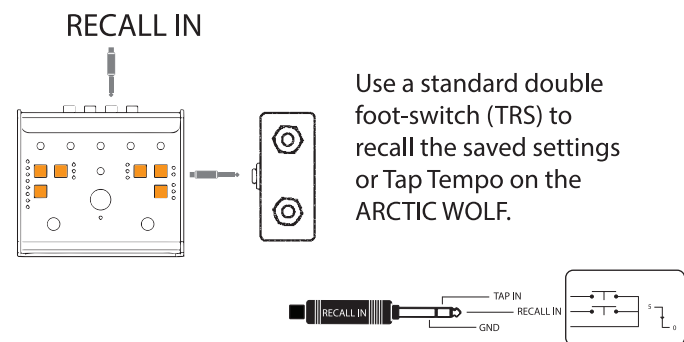
EXPRESSION IN



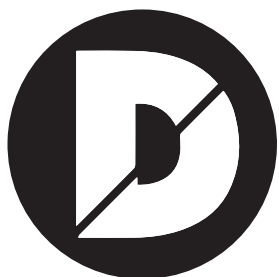
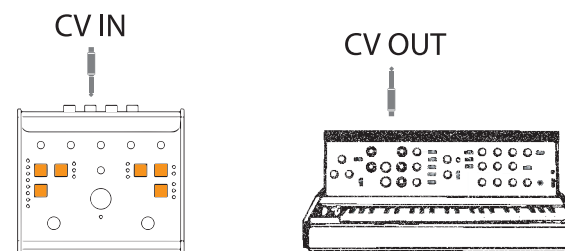
CONTROL VOLTAGE
OUT



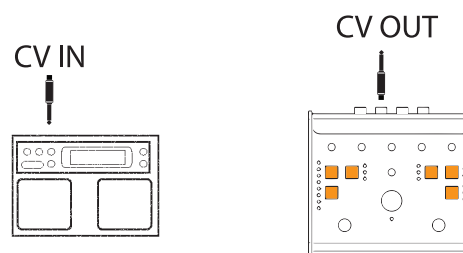
RECALL IN



CONTROL VOLTAGE
IN



CONTROL VOLTAGE
OUT





AW_01

UNITS

dB, Hz, Sec, ohm
mA, mm, Kg

TECHNICAL SPECIFICATIONS

9

CONTROLS

Waveforms: Triangle, Square, Sine, Random, Manual sweep
 LFO: 0.05Hz – 100Hz
 Symmetry: 10%-90%
 Hold: 0.005sec – 2sec
 Memory: 8 locations (expandable to 16)
 Tap Multiply: 1:1, 2:1, 4:1, 6:1, 8:1, 16:1
 Modulation Stages: Mono: 4 | 6 | 12
 Stereo: 4 | 6
 Configurations: Mono IN Dual OUT | Mono IN Stereo OUT | Stereo IN Stereo OUT

ELECTRICAL

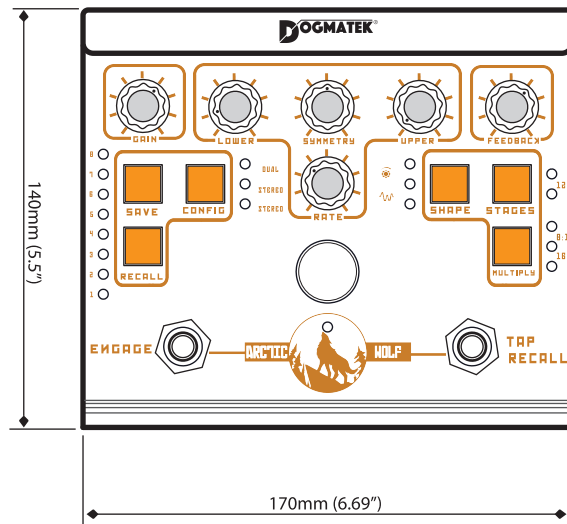
Input Z: 1Mohm
 Output Z: 10Kohm
 Input Level: -70dB – 0dB
 Gain: -10 to +18dB
 CV out: 0-5V AC | 0.05Hz – 100hz
 CV in: 0-5V AC | 0.001Hz – 4Khz
 Recall in: 0-5V DC pulse
 EXP in: 0-5V Sweep
 Architecture: Analog signal path, Digital control circuitry
 Filters: PWM controlled Filters
 Headroom: +/-8V
 SNR: 100dB

SIZE

Dimensions: 170mm x 140mm x 71mm
 Weight: 0.8Kg (1.76lbs)

PSU

Power: 9VDC → 12VDC | 300mA |



↓
0.8Kg (1.76lbs)