

USER MANUAL

Version 01

THE ARCTIC WOLF TWIN MODULATOR

SHAPE STREET

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

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KNORS-SWITCHES

KNOBS = GRFYSWITCHES=BLACK

OGMATEK

FRONT PANEL

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

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)

Mono in Dual out - Either input, Either Output

Mono in Stereo out- Either Jack input.

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

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

- 00 Ö through the same pedal!
- In1/Out1 = Phase-Trem, In2/Out2 = classic phaser
 - these are much more pronounced at high speeds.

The 2 outputs phase out of phase for crazy stereo effects Great for keyboards or post production, or have 2 guitars

Get almost vibrato sounding effects from channel 1, CH2 is a classic phaser

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

0 that settings have been saved 0

0 in the current position

*Return RATE to 0 to return to current settings

- Exit recall -

0

0

0

0

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

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

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

FEEDBACK: Dial it up for more intense phasing

Choose 1 of 5 waveforms for different phase sounds

Triangle: Classic phase

Square: Gate like phase Sine: Swirling Jush phase

S/H: Robotic random phase

Manual: Set the phase for filter like sounds

MULTIPLY: Speed up your tap tempo speed.

Twice as fast to 16 times as fast as you

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

The more stages the deeper and more intense 0 the sound.

tapped

*In Stereo modes only 4 and 6 are available

ENGAGE: Soft touch true electronic

bypass of both channels

GAIN: Adjust for unity or up

to 18dB of gain

0

ORECALL

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



JACKS

BACK PANEL

6.5mm (1/4")

INPUT1: Feeds to OUT1 in all modes *see pages 6, 7 and 8 for connection diagrams and OUT2 in MONO mode EXP IN: Connect an Expression pedal to control the RATE In MANUAL mode you can sweep the phase like a filter CV OUT: Use the powerful inbuilt CV to sync other effects pedals or a synth LFO Output = 0-5VOUT1: Output of signal from INPUT1 in all modes and INPUT2 in MONO mode 9VDC: Standard 9Vdc C- power adapter. DUT 1 INPUT 1 **EXPIN** EV DUT We recommend using a supply with RECALL DUTE INPUT 2 EV IN at least 300mA AWOO1 Unique Serial Number OUT2: Output from INPUT1 in MONO **Output from INPUT 2 in STEREO** CV IN: Connect an external Control Voltage (LFO) Link effects pedals or sync with a synth and computer. Output = 0-5V

> INPUT2: Feeds to OUT1 and OUT 2 in MONO mode Feeds to OUT2 in STEREO

RECALL IN: Connect a footswitch to allow for easy recall of settings

Dogmatek pedals with one foot-switch

when your pedal is mounted deep in your pedal board. Get the Fennic Fox recall footswitch to control multiple



KNOBS-SWITCHES

O LED not lit LED lit

LED Flash

CONTROLS

SWITCHES

SHAPE: Choose 1 or 5 waveforms for different phasing sounds

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



* only 4 or 6 selectable in stereo modes

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

- \bigcirc

6



* 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!) lō

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

00 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 Ŏ settings at that position (1-8). Õ
 - If the LED goes out, then there are no settings to be recalled from the position selected or you have exited recal
 - * 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 an so on

Press 9 times to abort save **2-0-2-0**

0000

Õ

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
- 000 Press 9 times to abort recall 0000

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

MULTIPLY

KNORS

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.







Symmetry has no

effect on waveform

S/H

AW_0

GLOSSARY

CW = Clock Wise CCW= Counter Clock Wise

Upper and Lower

Hold

WIVEFORMS

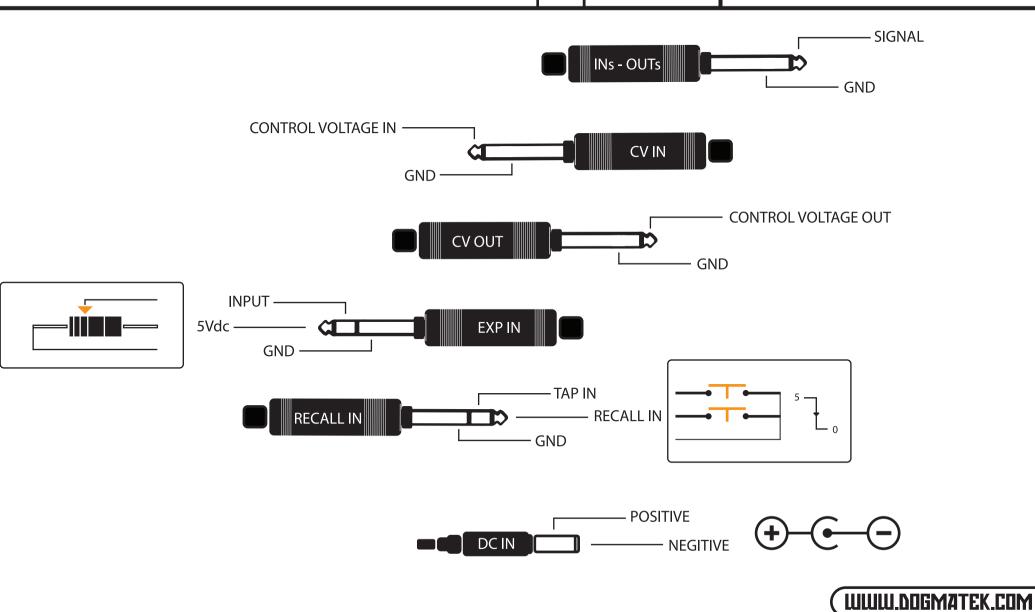
5 TRIANGLE WAVE **AND LOWER HOLD** TRIANGLE UPPER Symmetry Centre MANUAL SWEEP Lower Hold FILTER FREQUENCY Symmetry CW Upper Hold Symmetry CCW **Upper and Lower** CCW CW CENTRE Hold RATE KNOB POSITION Symmetry Centre **AND LOWER HOLD** SINE WAVE Lower Hold MANUAL SWEEP **EXPRESSION IN** SINE UPPER Symmetry CW FILTER FREQUENCY Upper Hold Symmetry CCW Upper and Lower Backward CENTRE Forward PEDAL POSITION Hold **SQUARE WAVE** Symmetry Centre HOLD **SQUARE UPPER** Symmetry CW Lower Hold **AND LOWER** Symmetry CCW Upper Hold



JACKS

6.5mm (1/4")

BACK PANEL JACKS





JACKS

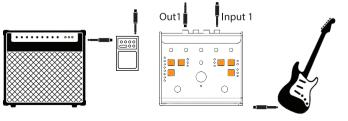
BLACK = TOPGREY = BOTTOM

INPUT CONNECTIONS

MONO OUT MONO IN

MONO IN DUAL OUT

MONO IN STEREO OUT



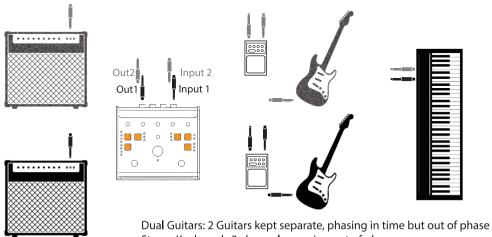
Classic setup: Guitar, pedals and amp •••••• Out1 Input 1

More Power: 2 amps with the same in-phase signal Out2 Out1 Input 1

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

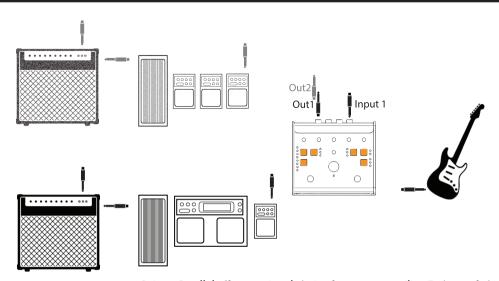
STEREO IN STEREO OUT

7



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

DOGMATEK® effects pedals

JACKS

BLACK = TOP GREY = BOTTOM

INPUT CONNECTIONS 02

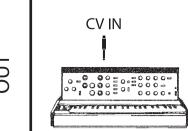
EXPRESSION IN

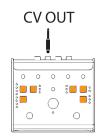
EXP IN

Use an external expression pedal to sweep the ARCTIC WOLFS speed range, or in manual mode sweep the filter.



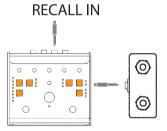
CONTROL VOLTAGE OUT





Use the ARCTIC WOLFS powerful inbuilt CV to control synths or keyboard LFOs -Use TAP TEMPO to sync your synth to any tempo.

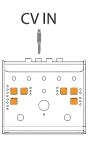
RECALL IN

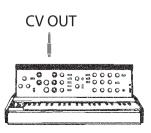


Use a standard double foot-switch (TRS) to recall the saved settings or Tap Tempo on the ARCTIC WOLF.



CONTROL VOLTAGE
IN

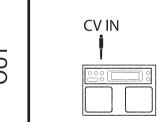


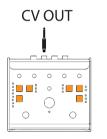


Connect your synth to control the ARCTIC WOLF for modulation in time with your synth LFO.



CONTROL VOLTAGE





Use the powerful inbuilt CV to control other pedals with a CV in -Tap the rate on the ARCTIC WOLF and your other pedals are in sync.



UNITS

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

TECHNICAL SPECIFICATIONS

CONTROLS

Waveforms:

Triangle, Square, Sine, Random, Manual sweep 0.05Hz - 100Hz

I FO: Symmetry: 10%-90%

Hold: 0.005 sec - 2 sec

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: Output Z: Input Level: Gain:

10Kohm -70dB - 0dB -10 to + 18 dB

1Mohm

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

Analog signal path, Digital control circuitry Architecture:

Filters: **PWM** controlled Filters

Headroom: +/-8VSNR: 100dB

Dimensions:

170mm x 140mm x 71mm

Weight: 0.8Kg (1.76lbs)

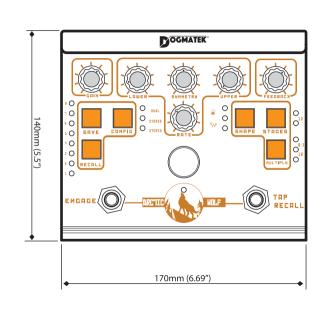
SU

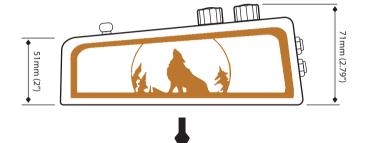
SIZE

Power:

9VDC→12VDC | 300mA | **⊕**-**€**-**⊝**

WWW.DOGMATEK.COM





0.8Kg (1.76lbs)