

SINU OI D

USER'S MANUAL
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SINUSOID INTRODUCTION:

Inspired by the legendary American amps of early 60', where tremolo and reverb came into their own, we focused on how to replicate the Vibrato Channel in a pedal format, our challenge was to design a real Optical tremolo with same tube driven character of old. We designed Sinusoid using the ACCUTRONICS™ Springs Tank technology making it **100% analog, tube driven.**

SINUSOID FEATURES:

- Two independent effects recallable by Footswitches individually or combined.
- REVERB: a real tube driven analog Reverb circuit equipped with an ACCUTRONICS™ Double springs tank. Finetuning the frequencies let us achieve the feeling of those great vintage 60's spring reverb tanks.
- VIBRO: a real tube driven Optical tremolo circuit, uses a Sinusoidal Wave coupled with our own Gurus proprietary technology using LDR to perfectly match the character of Vintage Vibrato channels, making it stand out from all the other digital or analog tremolo effect units on the market today.
- Remote outs for connections with analog switchers. This lets you remotely use the pedal and operate it outside of your pedalboard where this might cause undesired mechanical noises.. NOTE: Remote switcher must have Clean Contacts, without common ground wiring.

POWERING SINUSOID:

Sinusoid drains around 230mA on 9VDC and 300mA on 12VDC, HOWEVER, having an internal power output section (1,2W amp) that drives the reverb tank the draining depends by input signal, so it may need up to 400mA on 12VDC.

So, be sure to use a standard Negative TIP Power Supply with enough current for optimum performance.

Terms of Warranty

Gurus product warranty covers 2 years from date of purchase with the exception of moving mechanical parts such as foot switches, speakers and handles which have a 1 year warranty. The valves, lights and cables are guaranteed for 90 days from the date of purchase. The warranty does not cover damage caused by accident, misuse and / or neglect, failure to comply with the instruction manual, repair and attempted repair by personnel not authorized by Gurus Amps, any damage caused during transport and delivery, (claims must be presented to the carrier); damage to any product that has been altered or on which it has been removed, defaced or altered serial number; damage caused by faulty connections or connections to equipment failures and/or defective power cables. Responsibility of Gurus Amps for any defective product is limited to repair or replacement of the product at our discretion.

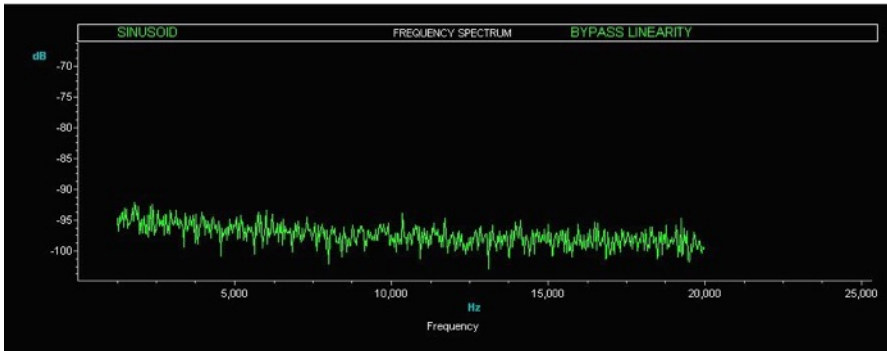
Gurus Amps is not to be considered liable for damages resulting from loss of use of the product, lost time operation interrupted by non-use of the product, loss of business or any other damages or incidental, consequential or otherwise; damage in transit or damage caused by inadequate packaging or of poor quality.

Assistance: Please contact us for information on how, where and when to ship the product. Repaired goods will be packed carefully and we recommend not to include any accessories such as cables, effects, manuals, etc. Please attach a copy of the original receipt of purchase (invoice or receipt) together with problem description and your personal data.

THE WARRANTY IS NOT VALID 'WITHOUT A COPY OF YOUR RECEIPT OF SALE CERTIFYING THE DATE OF PURCHASE.

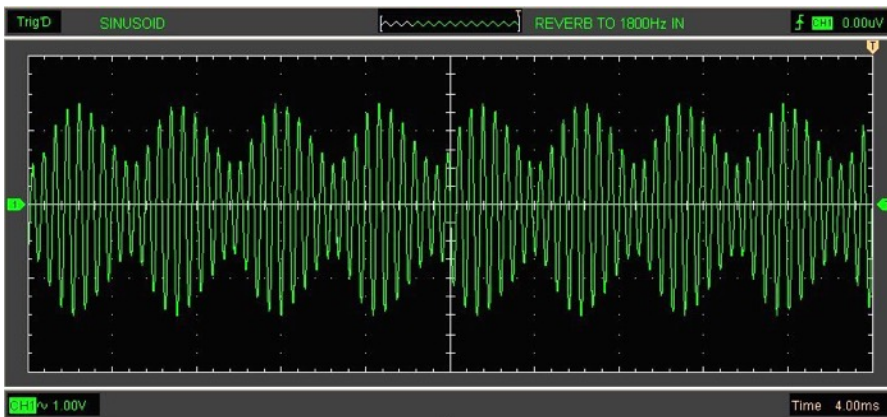
The costs of labor and material guarantee shall be borne by Gurus Amps. PACKING AND SHIPPING COSTS ARE THE RESPONSIBILITY OF THE CUSTOMER/USER.

FREQUENCY RESPONSE:



Here you can see the incredible frequency response of Sinusoid, a full range 20-20Khz that makes it suitable for all applications and any instrument.

REVERB:



Designing the Reverb side of Sinusoid, we collaborated with Accutronics™ this coupled with our driving circuit, GURUS was able to perfectly reproduce, the same tone, feel, and response of Vintage Spring Reverb Tanks. GURUS SINUSIOD gives you the sound and feeling of those great vintage and now expensive amps of the 60's.

CONTROLS:



SINUSOID CONTROLS:

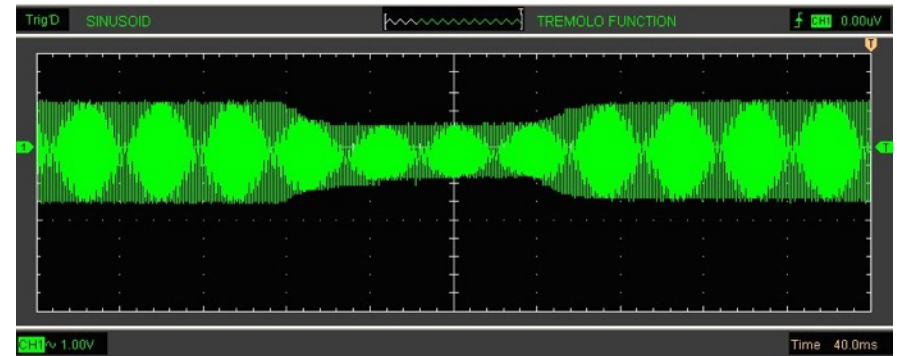
- 1 - VOLUME: Input Level
- 2 - REVERB: Effect Level
- 3 - Magic eye display shown the input level
- 4 - INTENSITY: Vibrato Level
- 5 - SPEED: Speed of Vibrato
- 6 - Magic eye display shown the impulsive Vibrato speed
- 7 - On/Off Reverb
- 8 - On/Off Vibrato
- 9 - Remote switching out
- 10 - Tube 12AU7/ECC82 estimated replacement time is 3000Hrs.
- 11 - Power in 9 to 12VDC Negative Tip 400mA required
- 12 - Signal INPUT
- 13 - Signal OUTPUT

TECHINCAL DETAILS:

Power 9VDC (Negative Tip)	MAX 300 mA
Power 12VDC (Negative Tip)	MAX 400 mA
Max Consumption	410 mA
Signal to Noise:	110db typical
Frequency response:	20Hz to 20000Hz
Input Impedance	<1M Ohm
Output Impedance	<100K Ohm
Max Input Level	1,5Vpp
Bypass Switching:	Double In/Out Buffers
Reverb Tank Amplifier:	SS 1,2W RMS
Reverb FX Mix: (parallel connection)	Max. 50%
Vibrato Circuit:	Full Sino Opto-Resistor equipped
Vibrato Intensity:	0 to -10db
Vibrato Speed:	116 to 384bpm
Tube Type:	12AU7 (Shuguang)
Remote switching:	ON-ON Mom. Clean contact switch 1/4" TRS jack
Dimensions	220x130x50mm. - 8x5x2inches.
Weight	0,600Kg. - 1,32 lbs
Main Power:	DC PLUG 5,5 x 2,1mm.
Input	Guitar Input 1/4" jack
Output	To Amp In 1/4" jack

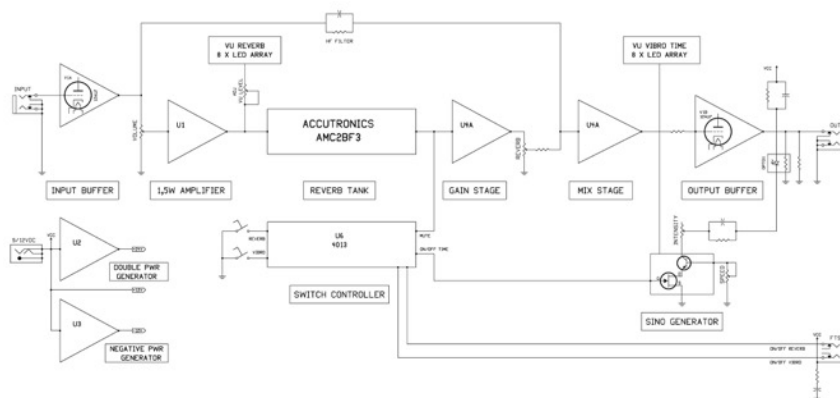
SINUSOID IN DETAILS:

SINUSOID WAVEFORM: A KEY FOR TONE.



As you can see on the graphic, your guitar signal keeps always the SINO waveform, even when the Vibrato does its work. This ensure you keep always the best tone, respecting your guitar, the others effects you are using, and the overall performances.

SINUSOID BLOCK DIAGRAM



SIGNAL TO NOISE:

