STONE DEAF

EFFECTS & AMPLIFICATION
MADE IN THE UK

TREMOTRON

**INSTRUCTION
MANUAL**

CONTENTS...

Congratulations on acquiring your new prodigious *Tremotron - digitally controlled analogue dual tremolo pedal.*

It has been a long time in the making… digital control system. We feel this offers all the flexibility of a dynamic digital control system, while maintaining the analogue signal path that we all know and love.

Unlike most Tremolos designed for Guitar, the Tremotron uses a VCA (voltage controlled amplifier) that allows for extremely fast, sharp tremolo effects such as Ring-Modulation and extra-choppy helicopter square waves.

When this was being designed our brief was to make something new and unique to the Stone Deaf brand and unique to the analogue tremolo world with built in presets, one touch / hold save options, fully MIDI controllability, CV expression of the fundamental parameters, dual tremolo's running in sync, tap tempo, wave sync technology and cool graphics from our friend Mcbess.

But the most important thing of all was that its easy to use and get new sounds out of it as well as it to be able to be used on multiple intruments using its un-balanced jacks.

It doesn't matter if your a bassist, guitarist, analogue keyboard player or synth player or sound scape sculptor, this will be right at home on your board or in your studio.

Getting Started: Primary Function

When the Tremotron is turned on you will be presented with the following LED configuration. This means the Tremotron is bypassed or in bypass mode.

Digitally Controlled Rate

Analogue Low Pass Tone Control

Analogue Level / Volume

Digitally Controlled Depth

Digitally Controlled Wave Shape

Tap Division Select
(Press and hold to store preset)

Bypass
(True bypass)

Tap Tempo
(Averaging)

Press Both simultaneously to change preset 1-4

Tremotron: Secondary LFO

- Press the Rate, Depth or Shape Encoders to activate second LFO (Tremolo)
- Indicated by Red Dot.

E.G Primary LFO (Green) Secondary LFO (Red)

E.G Primary (Green) = Ramp Up

Secondary (Red) = Ramp Down

- Select Control of Primary / Secondary tremolo by pressing the encoder (for Rate, Depth or Shape)
- Deactivate Secondary tremolo by setting Secondary depth to zero!
- Try setting Primary & Secondary Depth to 100% and adjusting secondary Rate notice how Primary remains constant as the Secondary Rate changes.

Expression control:

Expression control is available using a **Standard expression pedal.** You can use the expression to control multiple parameters simultaneously.

Press & Hold to control **Rate** with exression.

Press & Hold to control **Depth** with expression.

Press & Hold to control **Shape** with expression.

- Press + Hold again to deactivate expression control on either **DEPTH**, **RATE** or **SHAPE.**
- Expression Activation is PRESET ASSIGNABLE!
- When secondary LFO is activated, press & hold, expression control is applied to the currently controlled parameter.
- e.g) if you are adjusting the secondary Depth using the encoder, when you press & hold, the expression control will be assigned to secondary depth, not primary depth. You can control both by pressing depth again (to select primary) & then pressing + holding to assign expression.

MIDI Control:

To access MIDI settings, press & hold the bypass footswitch for 5 sec's while bypassed. Press & hold again to store settings. This allows you to change MIDI channel & activate MIDI clock default Channel = 1. Default MIDI beat clock = OFF.

When in MIDI setting mode, turn the depth knob to set MIDI channel.

When in MIDI SETTING MODE, Press 'Shape' to turn MIDI Beat Clock ON/OFF GREEN/RED

• When MIDI beat clock is activated any incoming clock messages will overide the Rate Control
• Sending MIDI program changes allows you to access 128 presets on the Tremotron. Footswitch preset selection is then arranged in to banks of 4. For example, if you select channel 9 using MIDI, you will now be able to cycle through channels 9 to 12 using footswitches. Selecting channel 7 with MIDI sets current bank to 5 to 8, etc.
• All Tremotron Parameters can be controlled using MIDI CC (continuous controller) messages.

The tremolo preset number is selected using 'Program Change' MIDI messages:

MIDI Status   =   Program Change (+Channel) = 1100 cccc
MIDI Data Messages =   Amplifier Channel = 0ppp pppp

Using MIDI, you also have the POWER to change *any* parameter of the currently *selected preset*. For example, this could be used to add a MIDI Depth Expression pedal that overrides your depth preset. All of these settings are accessible through *control changes* (sometimes referred to as *continuous controllers / MIDI CC) :*

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Midi Control Change Number	Rate	Values
20	Rate	0-127
21	Depth	0-127
22	Shape	0-127 (0-14)
23	Activate / Deactivate Secondary LFO	0-63 = OFF 64-127 = ON
24	Secondary Rate (relative)	0-127
25	Secondary Depth	0-127
26	Secondary Shape	0-127
27	Tap Division	0-24 = Crotchet (quarter) 25-49 = Dotted Quaver (3/16) 50-74 = Quarter (1/8) 75-99 = Quaver (1/8) 75-99 = Triplet 100-124 = Semi-Quaver (1/16) 125-127 = Hemi-Demi-Semi-Quaver (1/64) (RING MOD)

29	Bypass On / Off	0-63 = Off 64-127 = On
30	MIDI Beat Clock On / Off	0-63 = Off 64 - 127 = On

In instances where settings are toggled ON or OFF, the MIDI message work like a switch. For example, to turn FX Loop OFF (using Control Change number 26), send *any* value between 0-63. To Turn FX Loop ON, send *any* value between 64 and 127.

Presets:

We have given you the capability to store 128 presets of analogue tremolo tone and recall it using MIDI capability. 4 default presets have been installed on the Tremotron, they have been detailed on the following page to get you started on your amplitude modulation exploration.

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Presets 1: Basic Sine Wave

Presets 2: Basic Square Wave

Presets 3: Dual Flutter Wave
(Square and Sine Wave Combined)

Presets 4: Ring Modulation

Specifications:

Model   Tremotron MK1
Current mA: 250 mA
Dimensions: L 132mm x W 84mm x H 62mm (including knobs)
Weight: 0.65Kg
Enclosure: Aluminium
Power Supply: Boss style 2.1mm centre negative.
Voltage: 9v Supply (Internally 18v)

Warranty...

All Stone Deaf products come with a 5 year limited warranty. This covers any defects in manufacturing, faulty components. Please contact the dealer you purchased from if you have any issues with your Stone Deaf product or if you have purchased a product direct please contact us directly via our website: www.stonedeaffx.com

The Tremotron complies with the following regulations:

This device complies with part 15 of the FCC Rules.Operation is subject to the following two conditions:(1) This device may not cause harmful interference,and (2) this device must accept any interference received, including interference that may cause undesired operation.This device complies with the Canadian Interference regulations CAN ICES-3(B)/NMB-3(B)

Do us a favour....

If you enjoy this product and feel inspired to create, please share your experiences on our facebook page, via a comment, picture or review.
Alternatively follow us, like us or subscribe via Instagram, youtube or twitter.
Please use the handle's: #stonedeaffx, #stonedeaf, #sdfx, #stonedeafamps, #tremotron

Without the word of mouth (which is the most powerful marketing tool at our disposal) we will struggle to produce more innovative equipment without people knowing and buying our products.

If you can take some time out of your busy schedule to spread the word to fellow guitarists around the globe, it will help us grow as a company and focus our efforts on making even more exquisite equipment that you can enjoy.

IF YOU HAVE ANY PROBLEMS AT ALL WITH THIS PRODUCT PLEASE FEEL FREE TO E-MAIL US HERE: info@stonedeaffx.com