

SURFY•INDUSTRIES

**SURFYTREM**



## USER GUIDE

DC Jack	9V DC, center-negative
BROWNFACE BLACKFACE	Toggle switch for "brownface" mode (harmonic tremolo) and "blackface" mode (normal tremolo)
INTENSITY	Controls the amplitude of the LFO (Low Freq Oscillator)
SPEED	Controls the frequency of the LFO LED will indicate the frequency
OUTPUT	Guitar level output jack, unbalanced (TS)
INPUT	Guitar level input jack, unbalanced (TS)
FOOTSWITCH	Enables the LFO to activate the tremolo effect LED will indicate if tremolo effect is active No True Bypass

The SurfYTrem is based on old tube tremolo circuits using analog JFET transistor technology. SurfYTrem uses bias-modulation that allows to both amplify and attenuate the signal in order to keep the overall volume constant. The circuit is not True Bypass.

#### NORMAL TREMOLO - BLACKFACE

The tremolo effect is normally described as a variation in volume controlled by a Low Frequency Oscillator. This is also called amplitude modulation.

#### HARMONIC TREMOLO - BROWNFACE

The Harmonic Tremolo is a special type of tremolo which instead of just modulating the volume of the signal it also changes the tone. The oscillator modulates the tone from bass-boost to treble-boost and back again. The effect can be compared with the rotating speaker of a Leslie system.

IMPEDANCE	
Input impedance, 1/4" TS	1 M $\Omega$
Output impedance, 1/4" TS	10 k $\Omega$
VOLTAGE AND CURRENT DRAW	
Supply voltage	9V DC, center-negative
Current draw	10 mA
DIMENSIONS AND WEIGHT	
Dimensions	117 x 60 x 50 mm (4.6 x 2.4 x 2 in)
Weight	0.2 kg (7 oz)