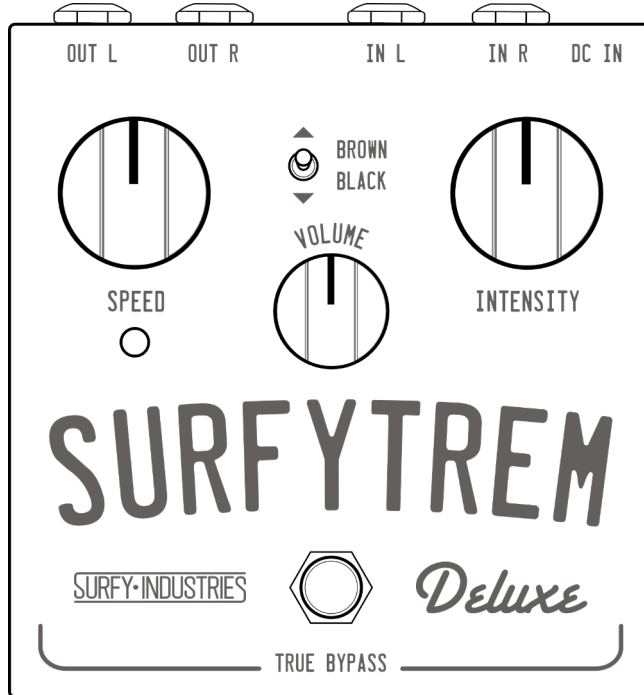


SURFY•INDUSTRIES

**SURFYTREM DELUXE**



**USER GUIDE**

OUT L	Guitar level output jack, left channel, unbalanced (TS)
OUT R	Guitar level output jack, right channel, unbalanced (TS)
IN L	Guitar level input jack, left channel, unbalanced (TS) When only IN L is used the same signal goes to IN R
IN R	Guitar level input jack, right channel, unbalanced (TS) When only IN R is used the same signal goes to IN L
DC jack	DC input jack, 9-12V DC any polarity
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
VOLUME	Controls the output level, 6dB gain at max
FOOTSWITCH	Enables the LFO to activate the tremolo effect LED will indicate if tremolo effect is active True Bypass

The SurfYTrem Deluxe is based on old tube tremolo circuits using analog JFET transistor technology. SurfYTrem Deluxe uses bias-modulation that allows to both amplify and attenuate the signal in order to keep the overall volume constant.

The SurfYTrem Deluxe is actually a dual SurfYTrem pedal that allows the modulation of the left and right channel to go in opposite phase. This makes it possible to create ping-pong effects and very cool stereo effects, also from a mono signal. The circuit is 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	1 k $\Omega$
VOLTAGE AND CURRENT DRAW	
Supply voltage	9-12V DC, any polarity
Current draw	30 mA
DIMENSIONS AND WEIGHT	
Dimensions	105 x 110 x 50 mm (4.1 x 4.3 x 1.9 in)
Weight	0.4 kg (0.7 lb)