

SURFY•INDUSTRIES

**SURFYBEAR COMPACT
DELUXE**



USER GUIDE

9-12V DC 0.5A	DC input jack, 9-12V DC, any polarity, 500 mA current draw
OUTPUT	Guitar level output jack
RCA RED	Input for signal coming from an external reverb pan Always active
RCA WHITE	Output for signal going to an external reverb pan Active only when EXT pan is selected Internally switched to use the internal pan when no plug is inserted
INPUT	Guitar level input jack
PRE <> POST	Controls if the tremolo should go before or after the reverb
BROWN <> BLACK	Harmonic tremolo mode <> Traditional tremolo mode
INT <> EXT (MIXER1)	Enables the internal or the external pan to Mixer 1
INT <> EXT (MIXER2)	Enables the internal or the external pan to Mixer 2
VOLUME (TREMOLO)	Output volume from the tremolo
INTENSITY	Controls the intensity of the tremolo effect
SPEED	Controls the modulation speed of the tremolo effect
VOLUME (REVERB)	Output volume from the reverb
MIXER 1	Mixer for the output signal, between Dry <> Wet sound Enabled when LED is ON
MIXER 2	Mixer for the output signal, between Dry <> Wet sound Enabled when LED is ON

TONE	Controls the tone of the wet signal
DECAY	Controls the length of the reverb tail
DWELL	Controls the level of signal sent to the reverb pan
TREMOLO BYPASS	Enables the tremolo effect
MIXER 1 - 2	Switches between MIXER 1 and MIXER 2 when the reverb is enabled
REVERB	Enables the reverb effect

TREMOLO EFFECT

This effect is built to recreate the sound of the famous "vibrato channel" of the vintage Fender® brownface amplifiers. The effect is 100% analog and one of very few tremolos that are based on bias modulation. In the same way as our well known SURFYTREM pedal. Bias modulation was used in many vintage Fender amps and is now recreated by using matched JFET transistors.

PRE / POST SETTINGS

This switch controls if the tremolo should go before or after the reverb. In PRE-position the tremolo effect is more subtle and gets smoother because of the reverb tail. In POST-position the tremolo effect will get more efficient since also the reverb tail will be modulated.

BROWNFACE MODE

Imagine the incredible tone out of a Fender® 1961-1962 Showman® amplifier (second channel) with its beautiful and sweet harmonic tremolo voice. This has often been called THE tremolo, imitated by many throughout the years, but equal to none. The signal floats on the harmonic wave, moving up and down, alternating highs and lows. It can be compared with the effect of a rotating speaker in a Leslie system. This kind of tremolo has one great feature: it's dynamic adaptability. When the melody is slow and intense it pushes its vibrating soul and the tone becomes especially rich and deep, but if you change the mood and the sound becomes aggressive and loud, the effect is almost absorbed and stands back, maintaining the full attack of the guitar. In this mode, the extreme dynamics of the tremolo follow the style of playing and enhance the sound without interfering.

BLACKFACE MODE

In 1964 Fender® introduced the Blackface amplifiers series, gaining a cleaner and brighter sound compared to the tweed/brownface models. They used a different kind of tremolo, well known since the '50s, in which the signal is moved alternatively in and out, a sort of on/off feeling, resulting in a more efficient and audible effect. This functionality is also known as "amplitude modulation". This tremolo really stands out when needed and cuts through the mix easily and loudly. It is not as dynamic on the melody, but if used in a solo, for example, it really "frees up" the guitar sound, giving it depth and length. This is certainly a more common effect and it probably requires less experience than the harmonic tremolo to be used properly.

REVERB EFFECT

Spring reverb technology has been well known for more than 50 years. One of the first reverb units available for electric guitars was the Fender® 6G15® standalone reverb, which has set the standard for generations of musicians. Still today, the unique sound of real spring reverbs is very popular among musicians all over the world.

Spring reverb has an extremely unique sound, making it perfect for all kinds of effects. There are tons of software versions out there, but the original spring reverbs are hardware! By feeding a sound through metal springs, it creates the illusion of reverb. The result is a metallic, otherworldly unique sound, making it perfect for all kinds of effects.

For this SurfYBear reverb pedal we have used all our knowledge and the valuable feedback from our customers to build modern version of the classic spring reverb. Packed with modern features like True Bypass, Decay control, dual Mixer controls, output Volume control and jacks for an external reverb pan (optional).

Reverb pans have a fixed decay time determined by physical constraints. However, the SurfYBear Compact Deluxe is using a soft-knee gate circuit to shape the reverb tail by adjusting the Decay controls. By setting the Decay control to max, the gate will stay continuously open.

Each Mixer control can be configured to use either the internal or an optional external reverb pan. Any reverb pan with impedances of: 8-10 ohm (RCA input) and 2250 ohm (RCA output) can be used. The two RCA jacks are internally switched to use the internal pan if no plug is inserted.

IMPORTANT NOTE

This reverb unit is using real springs reverb pan.
PLEASE REMEMBER to remove the foam protecting the springs before using.

IMPEDANCE	
Input impedance, 1/4" TS	1 M Ω
Output impedance, 1/4" TS	1 k Ω
Designed for an external reverb pan (optional) with input impedance	8-10 ohm
Designed for an external reverb pan (optional) with output impedance	2250 ohm
VOLTAGE AND CURRENT DRAW	
Supply voltage	9-12V DC, any polarity
Current draw	500 mA
DIMENSIONS AND WEIGHT	
Dimensions	245 x 120 x 60 mm (9.6 x 4.7 x 2.4)
Weight	1.1 kg (2.4 lb)

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.