The GigRig Ltd
Unit 85 Basepoint Business Centre
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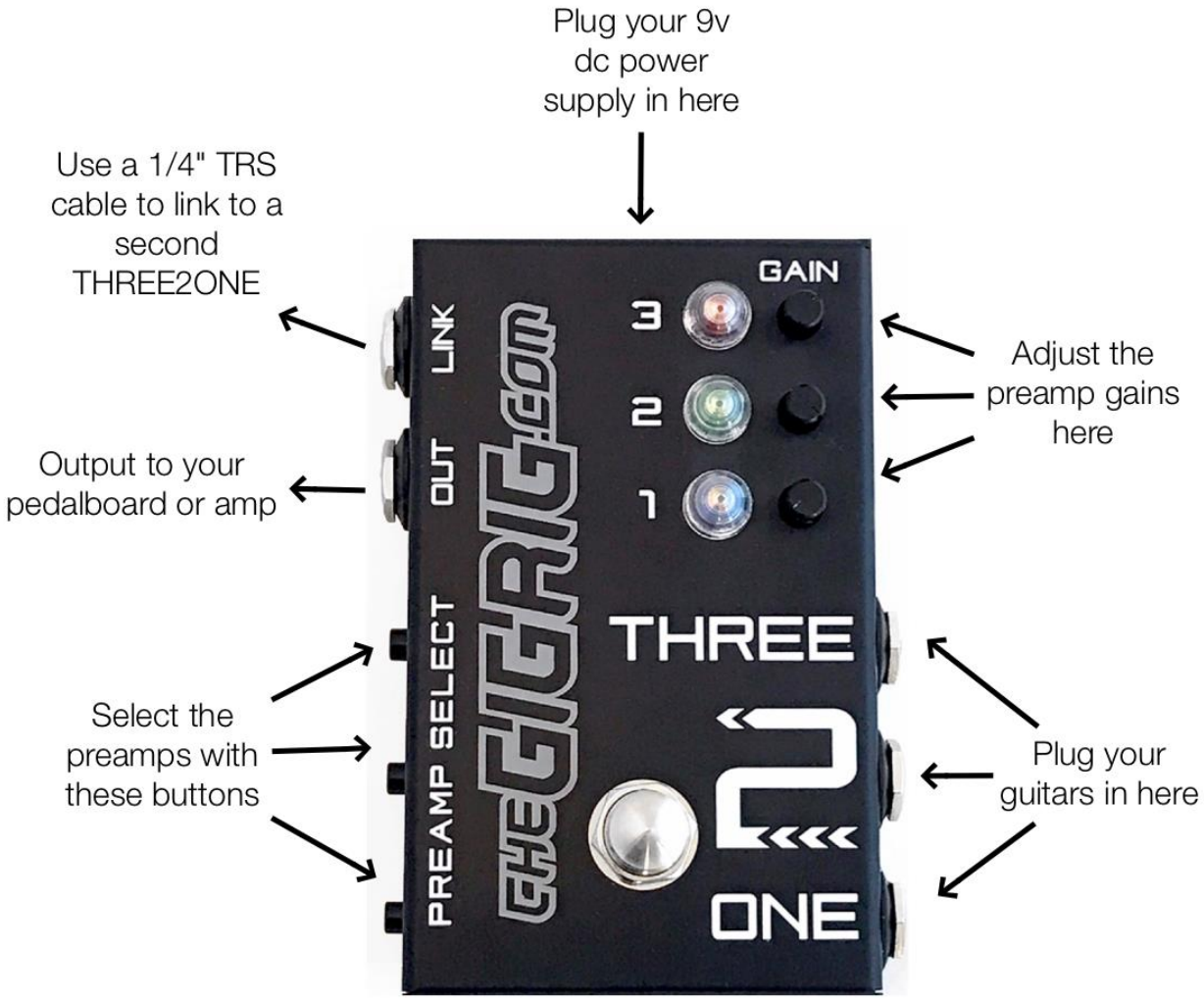
TheGigRig Three2one



Plug your guitars in, select the preamps for the ones you want to be louder/softer and use the footswitch to cycle through them. Need more inputs? You can link 2 units together for up to 6 guitars.

About the Preamp

It's quite awesome. We double the voltage internally to 18v so that it has a massive input level but remains ultra clean and quiet. Without the preamp selected, the guitar is true bypass, straight through. With the preamp selected (button pressed in) you can use the corresponding gain control to set your guitar's level, cut/ boost or simply set it to unity gain to give you a buffer.

About the Optokick Footswitch

The Three2one uses TheGigRig Optokick optical footswitch, milled form marine quality stainless steel, the Optokick uses light instead of mechanics to facilitate the switching. We believe it's the most reliable footswitch in the world.

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In Use
Using inputs one and two first; the Three2one will ignore the third input and will only switch between the two guitars in inputs in use. (Blue and Green). Three2one will then automatically sense a third input being connected and will cycle through all 3 inputs.

More Guitars, using two Three2one units.
Connect two units together with a ¼" TRS (stereo) cable to connect up to 6 guitars. Pressing the footswitch on one unit will mute the other unit. You can use either output.

Special Functions
Tip… It's best to disconnect the output before re-configuring your Three2one, or just turn down your amplifier if you prefer.

To enter the Special Functions menu simply hold down the footswitch when applying power to the Three2one. You will then see some of the lights are on and others are off, this tells you the current configuration.
To change the configuration, press the footswitch once, the red light will flash five times. If you press the footswitch again whilst the light is flashing the Red function will be toggled, you will see that the light will have changed state.
The next press will take you to the Green function and the next to the Blue function and the same applies, press the foot switch again whilst the light is flashing to change its sate. (This change is remembered by your Three2one.)
Tip, selecting the Blue function immediately takes you to Blend mode, see later.

What do the functions do?
Red 'on'
This means your Three2one will always step through all three inputs, even if an instrument is not plugged into input 3, the Red input.
Tip... if you like to count switch presses rather than look at the light, then this mode is ideal for you.

Green 'on'
This adds a mute to the guitar selection sequence so the new sequence will be **Blue, Green, Red, Mute, Blue, Green, Red, Mute;** and so on.
This also applies to the two-guitar setup which will then be **Blue, Green, Mute, Blue, Green, Mute;** and so on.

Blue 'off'
Blue will always be on in the standard modes, but turning it off allows you to blend between the guitars which have the amplifier/ buffer in the signal path.
This allows two or three guitars to be played at the same time though the Three2one, it will blend them together with the volume controls as balance controls.
When in Blend Mode the foot switch will cycle through all the combinations of the three inputs.
This setting will not be memorised by Three2one so it won't affect any of your other settings.

Experiment and have fun; even line level devices such as drum machines or keyboards can be blended with your guitars.

You can exit back to normal mode, at any time, by simply removing and reconnecting the power.



Output configuration.
Your Three2one has three output driver configurations.
1, True bypass (output direct connection, no amp or buffer) is selected by an internal mini dip switch; this is the default mode.



2, Always buffered: this is for systems where long cables need to be driven with a low impedance to create a crisp top end to all your sounds. (Never true bypass)



3, Always X2, this gives the same benefits as 2, and also increases the drive range available. With the gain turned all the way up there will be an increase in signal level of X4 instead of X2.

This would limit the input handling; however, the X4 gain in the Three2one can still handle inputs of 4V peak to peak.

Re-configuring the output driver.
To re-configure the Three2one's output driver you must remove the power and remove the 3 input jack plug nuts, losen the out and in jacks then unscrew the four screws on the ends. The bottomwill come off and you'll see the DIP switches.

Enjoy!
Daniel and the Team
TheGigRig.com

Technical Specification
Box size. 115.0mm X 76.6mm X 41.4mm (including Jack sockets and foot switch.

Supply voltage range
7V to 12V DC centre positive, optimum 9VDC
Optimised for use with the GigRig Generator. See Website

Current consumption. 9V input
120mA normal mode, 120mA to 200mA in Blend mode.

Input impedance
Using the Selectable amplifiers 1.6Meg Ohms on each input.

Input signal handling.
True Bypass. No limit, passive DC connection using relays.
Buffered input. 8.6V peak to peak, Buffered with X2 gain Still 8.6V peak to peak.
With Boost option 4V peak to peak.

Output impedance
True Bypass, variable, highest = 21K Ohms
Using the Selectable amplifiers = 100 Ohms