

Use of two DS5 stimulators in parallel allows summation of stimulation pulses through the same pair of electrodes.

The DS5 Bipolar Constant Current Stimulator is limited to a maximum current output of $\pm 50\text{mA}$, from a voltage source of approximately $\pm 100\text{V}$. In some applications it may be necessary to stimulate with currents greater than $\pm 50\text{mA}$ and by connecting two DS5's in parallel it is possible to sum the waveform inputs that each receives into a single output stimulus.

The illustration below shows how the electrode connection outputs of the two stimulators should be linked. If the intention is to sum two equivalent waveforms, then it is vitally important that the input waveforms to the two stimulators are perfectly synchronized.

