

Item	CUY21SC	CUY21EDIT	Competing Devices	Explanation
<i>Resistance Measurement</i>	Available  Up to 14k Ohm	Available  Up to 18k Ohm	N/A	An accurate and precise resistance measurement ensures a <u>consistent delivery of the protocol output current</u> .  * Current is a very important factor for gene transduction efficiency.
<i>Voltage Setup</i>	0.1-99.9V  0.1 Volt resolution	1-500V  1 Volt resolution	No low voltage control	An accurate and controlled low output voltage range (under 100 V) is a critical success factor for the majority of <u>in vivo, in ovo, in utero and ex vivo electroporation</u> applications.
<i>Output Current Measurement</i>	Available  Range:  0.001-0.999 A  1.00-1.60 A	Available  Range:  0.01-4.00 A	N/A	A controlled <u>0.001-0.01 A</u> current range has been proven to be of utmost importance for adult mouse and rat brain, tissue brain slice, chicken embryo, single cell, etc electroporation.  A controlled output current is very important when analyzing experimental results and extrapolating optimized electroporation conditions.
<i>Automation Shut Down</i>	Max. 1.60 A	Max. 5.0-1.0A  (1-500V)	Not always available	In cases of accidental misuse, the CUY21 range automatically shuts down to prevent electrocution.  * The automatic shut down function is only guaranteed when the CUY21 range is used with the Nepa Gene electrodes. Use of non-Nepa Gene electrodes invalidates this safety guarantee
<i>Memory Settings</i>	99	2	Usually 2	
<i>Optimised Electrode</i>	Over 250 different electrode configurations optimised for the CUY21 system to chose from		Limited	The correct electrode enhances success.  Nepa Gene is the only electroporator manufacturer to supply a variety of <u>in vivo, in ovo, in utero and ex vivo electrodes</u> optimized for its electroporators.
<i>In Vivo Electroporation Literature</i>	An extensive library of publications citing the use of the CUY21 electroporator series		Limited	An extensive library of experimental protocols available.  Regarding in vivo electroporation, we can recommend specific electrodes, techniques and protocols depending on the application of interest and target site.

