

The NL100RK - Stimulate and record from a preparation using the same electrode

The new **NL100RK**, consisting of the **NL100AKS Headstage** & **NL100C Stimulus Control Module**, can be combined with the **NL104A AC Preamplifier** to allow electrical stimulation and recording through the same extracellular electrode.

The NL100C will accept a voltage stimulus of up to 100V (e.g from our own DS2A stimulator shown below) and pass it through the NL100AKS headstage subject to the position of the front panel toggle switch. In the "Off" position, stimuli are prevented from passing into the headstage and the preamplification circuitry operates, allowing an extracellular recording to be made. In the "On" position, any stimulus provided by the DS2A will be passed through the recording electrode to the preparation and the preamplification circuitry in the headstage is bypassed. In the "EXT" position, an external gating pulse can be used to control whether the headstage is in the stimulation or recording mode.

Further amplification and filtering of the amplified signal can be achieved by use of the **NL106 AC/DC Amplifier** and **NL125/6 Filter**. In addition, the NeuroLog System range includes the **NL201 Spike Trigger** and **NL120S Audio Amplifier** which allow you to process your signal further and audibly monitor neuronal firing patterns.

