Electro 705 Intracellular Amplifier **WPI**

Remote Headstage - Easily mounted in any manipulator, this small probe, containing the first stage of amplification, includes a microelectrode holder, which plugs directly into the probe input.

Battery Power - Four 9V alkaline batteries (included) power the Electro 705 for approximately 500 hours giving a super clean low noise source of power making the Electro 705 the quietest amplifier available. Batteries can be easily tested by the press of a button.

Capacitance Compensation - Corrects for loss of rise time caused by the presence of electrode capacity. Up to 50 pF of electrode shunt capacity may be neutralized.

Driven Guard Shield - Stray capacitance can be further reduced by placing the driven guard shield (included) over the microelectrode holder at the input end of the probe.

Tickler Circuit - A momentary oscillation that helps achieve cell penetration.

Electrode Resistance Test - The 705 provides a 1 nA electrode test current. Electrode resistance is monitored at the 1X output as a voltage (1 mV/M).

Probe Test Port - Allows the convenience of testing the amplifier's intrinsic noise and gain without cumbersome external test hookups. Gate leakage current can also be adjusted with minimum effort.

Baseline Position Control - Adds or subtracts up to 300 mV to the headstage output, allowing artifact voltages such as liquid junction potentials to be nulled prior to recording.

Differential Output - Two Electro 705s can be connected in tandem to create an optional differential amplifier probe system.

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