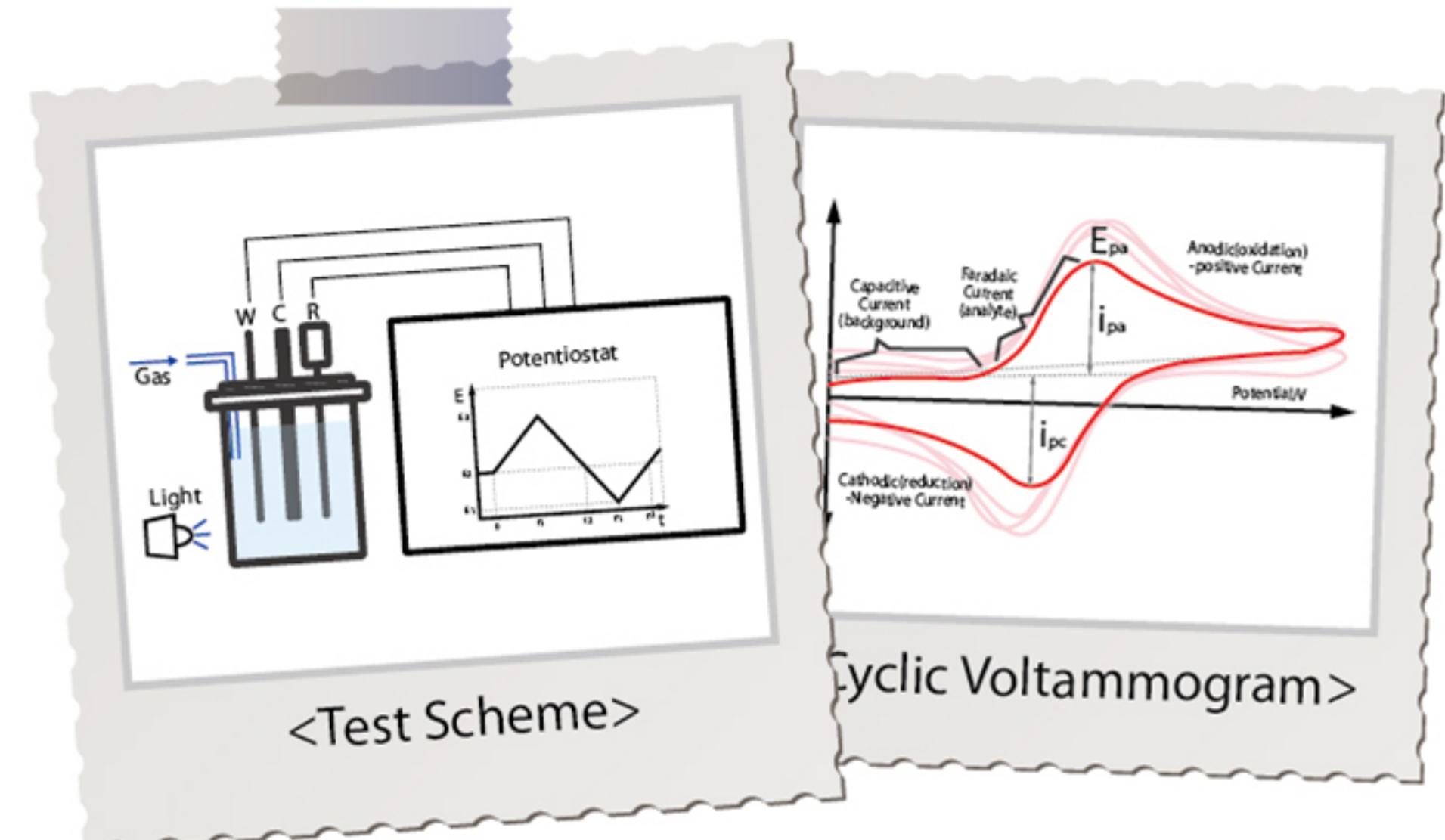


Q1100Electrical, Optical & Thermal
Imaging & Test Systems

Cyclic Voltammetry Test System

The Cyclic Voltammetry is a basic experiment for the characterization of electrochemical systems. The long-cycle repeated measurement of Cyclic Voltammetry is widely used for quick evaluation of electrochemical materials for the application of devices such as rechargeable batteries, electrochemical double-layer capacitors and photo-electrochemical systems. Q1100 provides multi-channel management capability for efficient measurements of multiple sample devices.

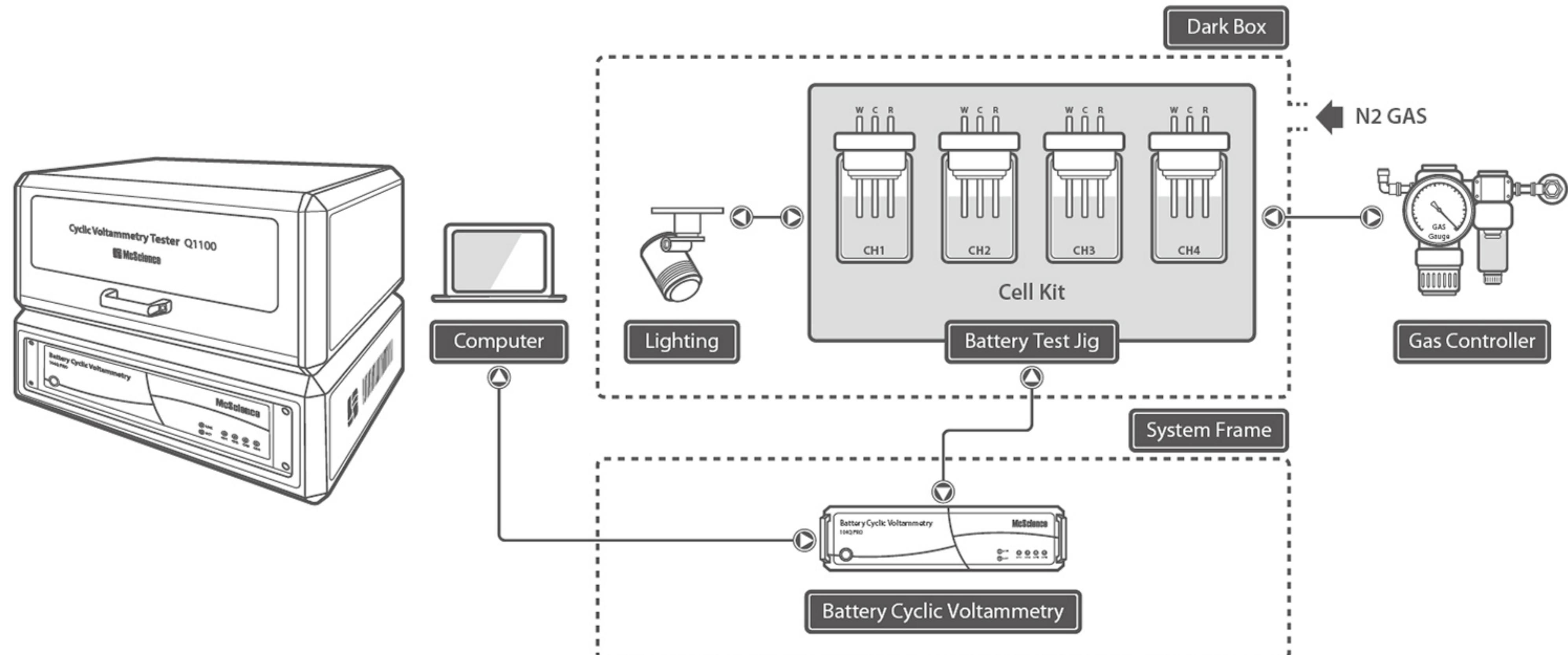
Cyclic Voltammetry**Multi-Channel**

Multi-Channel Cyclic Voltammetry
High-Speed Data Acquisition
Sequence Builder
Individual Channel Management
Gas Control & Light Source Options

**McScience**

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System Configuration



System Components



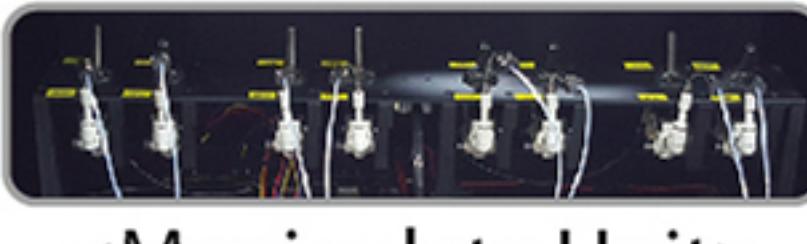
<System Frame>



<Measurement Unit>



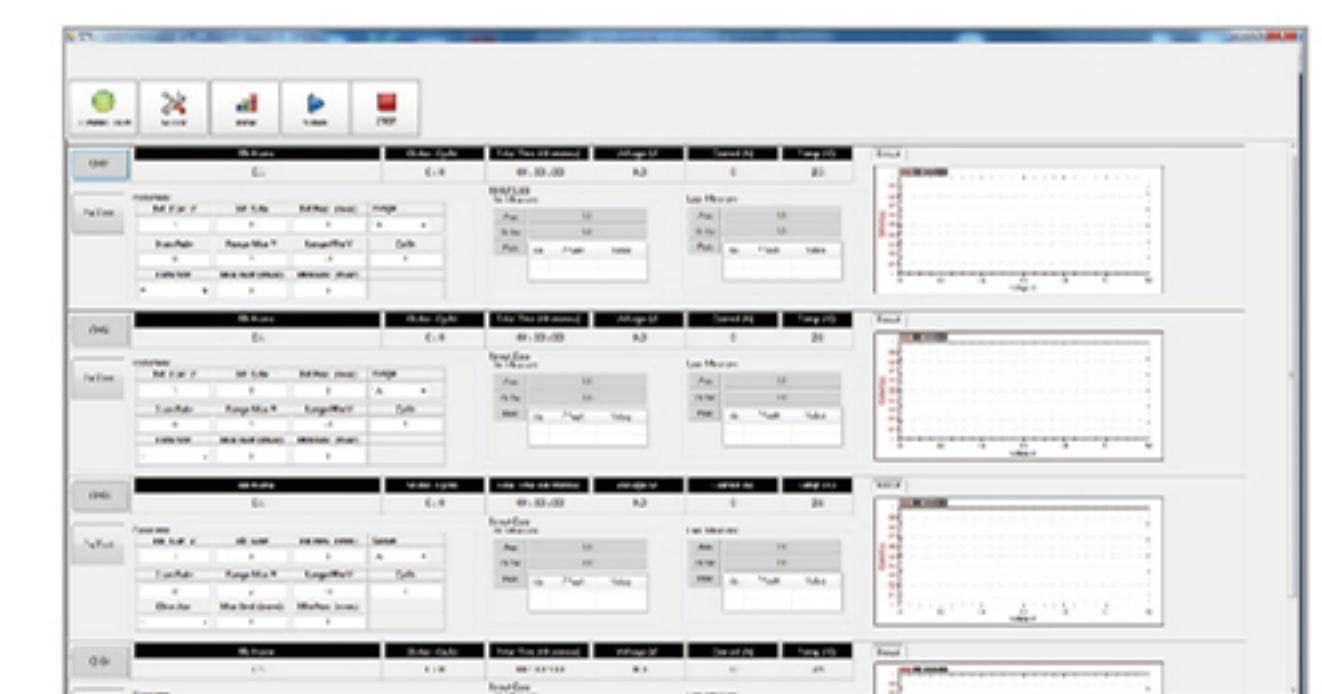
<Cell Kit>



<Manipulate Unit>



<Optional Gas Controller>



<Measurement S/W>

System Specification

Channel #	4CH (Independent Configuration)	
Test Board #	1 ea	
Mode	Voltage Control, Current Measurement	
Output Connection	2Probe, 3Probe, 4Probe	
Voltage Control	Range Capability Resolution Accuracy Stability Scan Rate Frequency Setting Parameter	-10V ~ +10V 10mA 16bit DAC < 0.1% of full scale <0.1%/h after 30 min. warming up 10mV/sec ~ 100V/sec 0.001 ~ 100Hz Voltage Sweep Range, Voltage Step, Scan Rate, Cycle
Current Measurement	Configuration Range Resolution Accuracy Stability Sampling Rate Measurement Parameter	Zero Resistance Ammeter 4 Decades (10µA, 100µA, 1mA, 10mA) 16bit ADC < 0.01% of full scale <0.1%/h after 30 min. warming up 40ksps Cycle, Time, Voltage, Current, Epc / Ipc / Epa / Ipa

Time	1sec ~ 65,000 hrs
Measured Data	Voltage, Current, Time
Operating Temperature	20 °C ~ 30 °C
PC Interface	Serial / LAN
Dimension	450mm(W) x 300mm(D) x 150mm(H)
Weight	< 10 Kg
Line Voltage	220V 1Ø 50 ~ 60Hz, <3A

