

Q3000

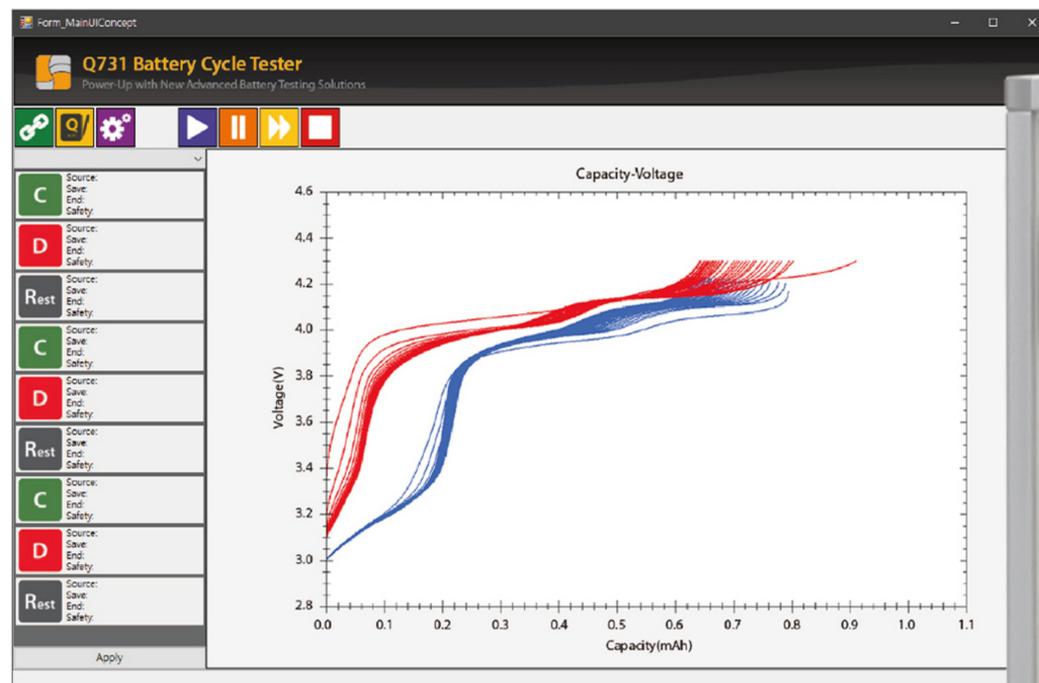
Electrical, Optical & Thermal
Imaging & Test Systems

Battery Cycle Test System

High-speed data acquisition capability of Q3000 Battery Cycle Test System provides advanced feature of collecting battery's time-variant internal resistance during conventional charge/discharge and cycle tests. The Sequence Builder is a powerful tool for efficient design and management of test procedures. The Metadata Compiler is a smart tool for automatic extraction of test parameters and big data analysis.

Charge/Discharge + Cycle Test + DCR

Sequence + Metadata + Big Data



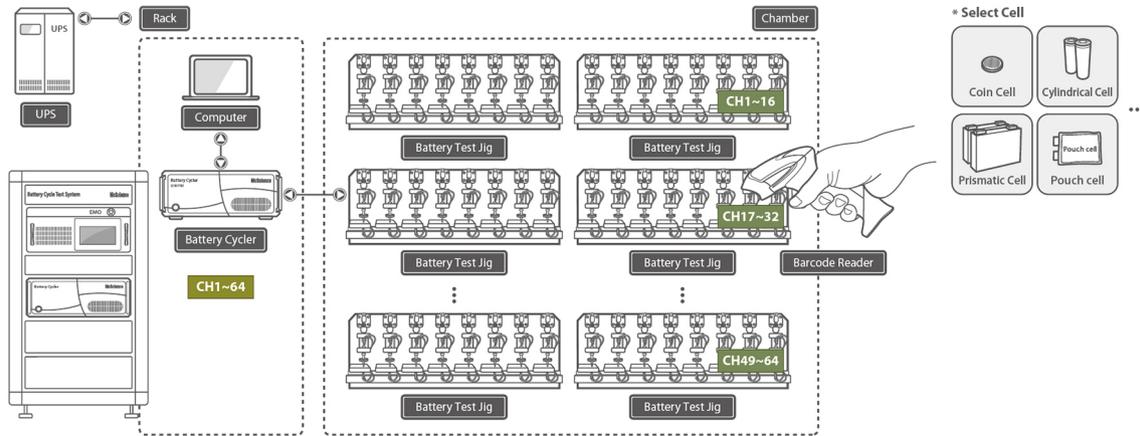
- Charge/Discharge & Cycle Test
- High Precision OCV Measurement
- DC Internal Resistance
- Sequence Builder
- Meta Data Compiler
- Big Data Manager



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System Configuration



System Components



System Specification

Hardware

Channel	64ch (Standard)	Voltage	Source Range	-5V ~ +5V	
Operation Mode	CC, CC/CV, CP, CR, OCV, Rest		Source Resolution	16bit	
Connection	4-Probe		Source Accuracy	±0.1% of Full Scale	
Size	Rack System: (W)900 x (D)1000 x (H)1400mm 6U 19" Rack Mountable		Measurement Range	-5V ~ +5V	
Weight	< 200Kg		Measurement Accuracy	±0.1% of Full Scale	
Operating Temperature	23°C ± 3°C	Current	Configuration	2 Range Shunt Configuration	
Communication	LAN Interface (100Mbps)		Source Resolution	16bit	
Electricity	1-phase 100V ~ 240V, 50-60Hz, Max. 400W		Source Range	100mA	10mA
			Source Accuracy	±0.1mA	±0.01mA
		Measurement Range	100mA	10mA	
		Measurement Accuracy	±0.1mA	±0.01mA	

Software

Item	Specification
Model Name	Q730 Battery Cycle Test Software
Set Parameter	Operation Mode, End Condition Safety Condition, Save Condition
Measure Parameter	Charge/Discharge Characteristics, OCV, DCR
Control	(Group) Start, Stop, Channel Select (Channel) Start, Stop, Pause, Next
Monitoring	Status, Total Time, Voltage, Current Temperature(Optional)
Sequence	Max. 100 Line
Data File Format	Q Raw data Format (.qrd)
End Condition	Time, Voltage, Current, Capacity, Energy, Power, Delta V
Safety Condition	Max./Min. Voltage, Max./Min. Current, Max./Min. Capacity
Save Condition	Delta Time, Delta Current, Delta Voltage