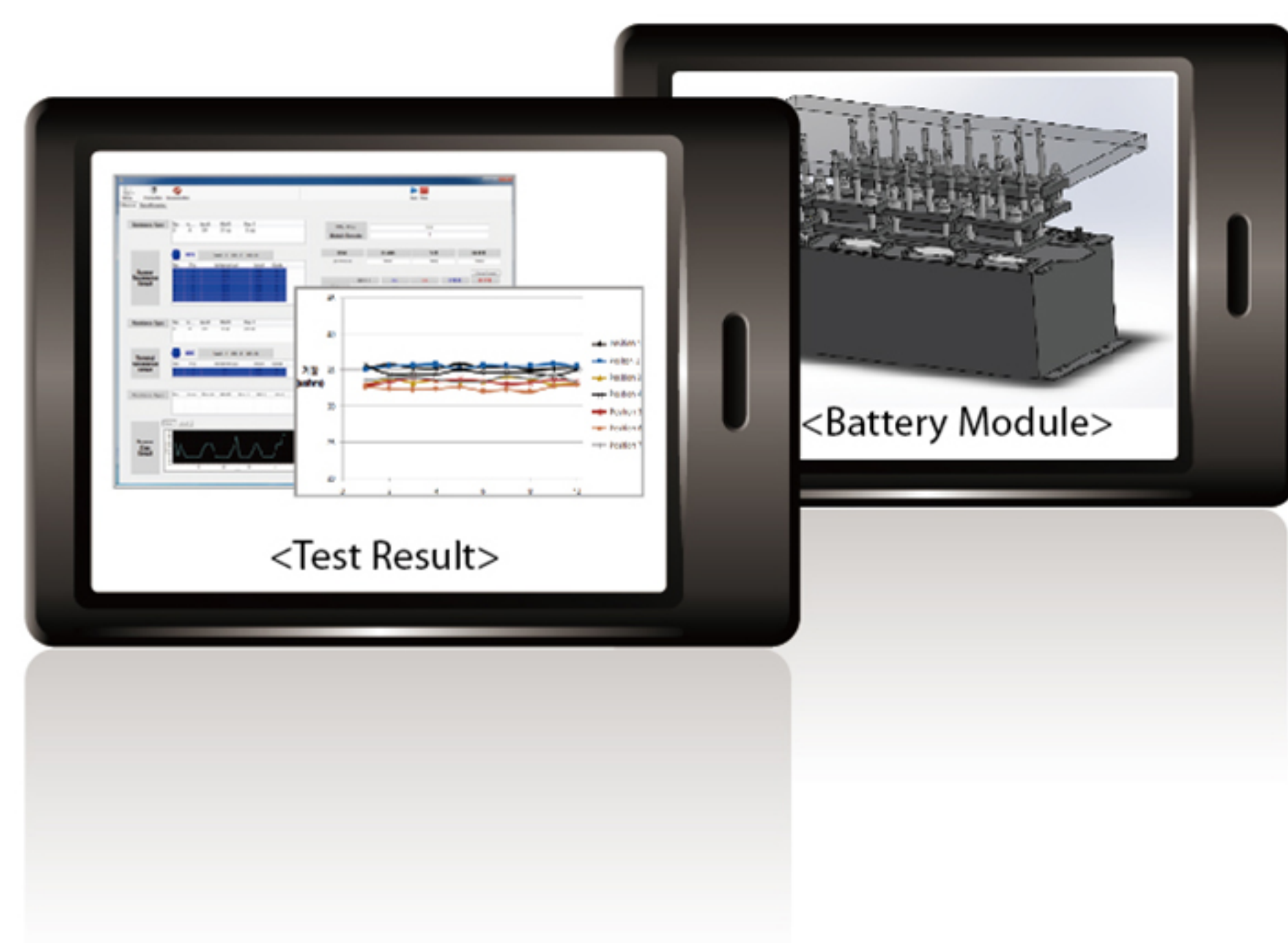


Q4500

Electrical, Optical & Thermal
Imaging & Test Systems

Battery Pack Inspection System

Battery Pack Inspection System is for automatic in-line inspection of battery products in large-scale battery production facility. The system can integrate various modular test units for OCV monitoring, battery internal resistance, contact resistance, battery impedance, insulation test, optical inspection, weight and size measurement, and all automation peripherals such as loading /unloading unit and test jig.



Product Inspection

In-Line Automation

OCV

xEV Battery

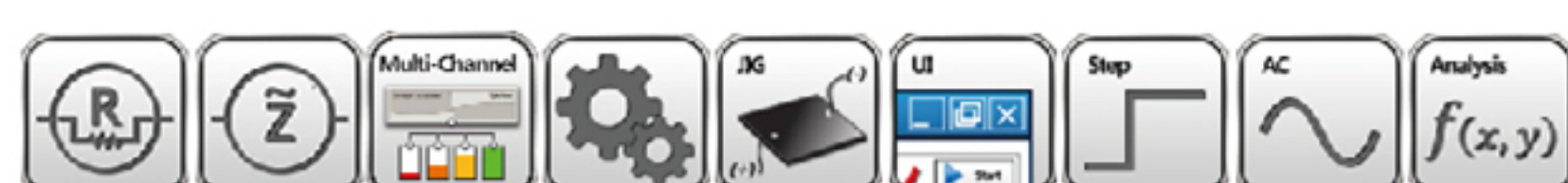
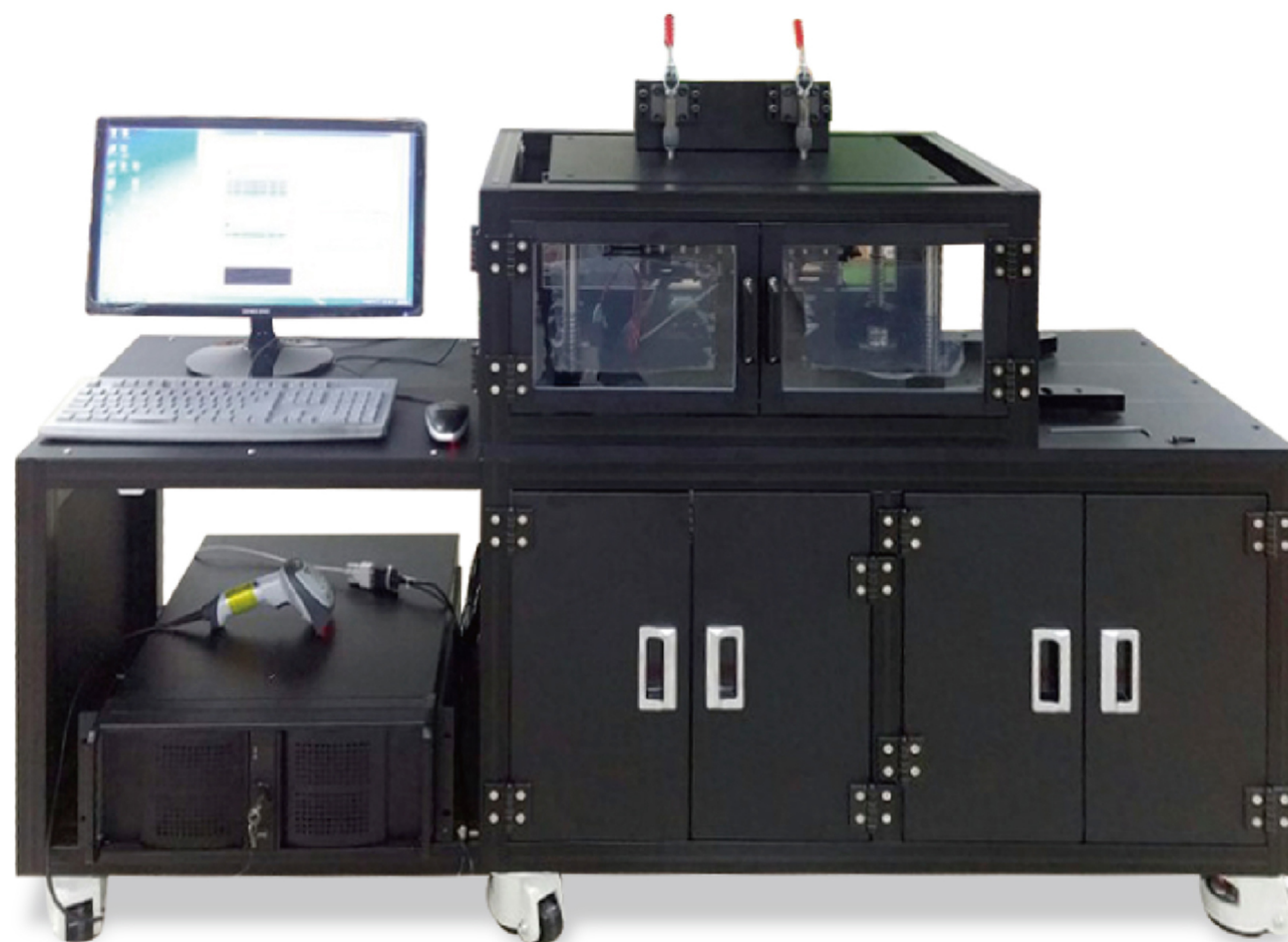
Cell / Module Inspection

DCR/ACR

Contact Resistance

Insulation Test

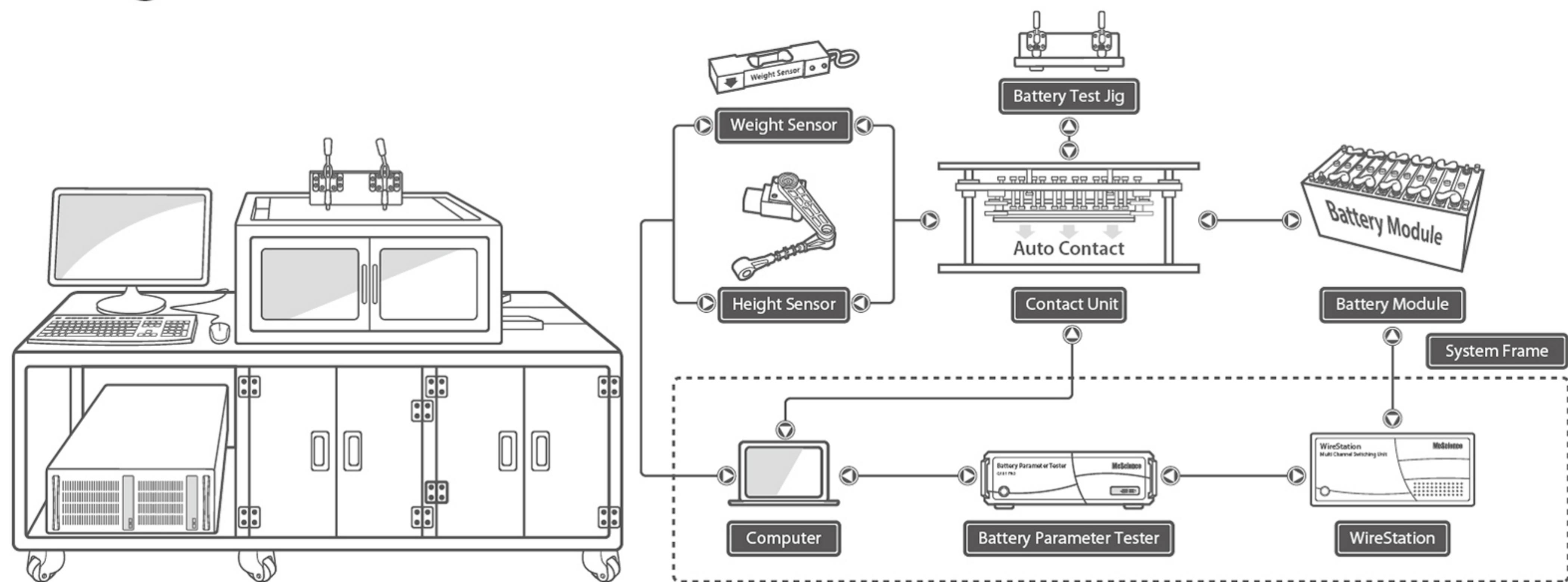
Automatic In-Line Inspection
High-Precision OCV Measurement
DC/AC Internal Resistance
Contact Resistance
Battery Impedance
Insulation Test
Optical Inspection
Weight/Size Measurement



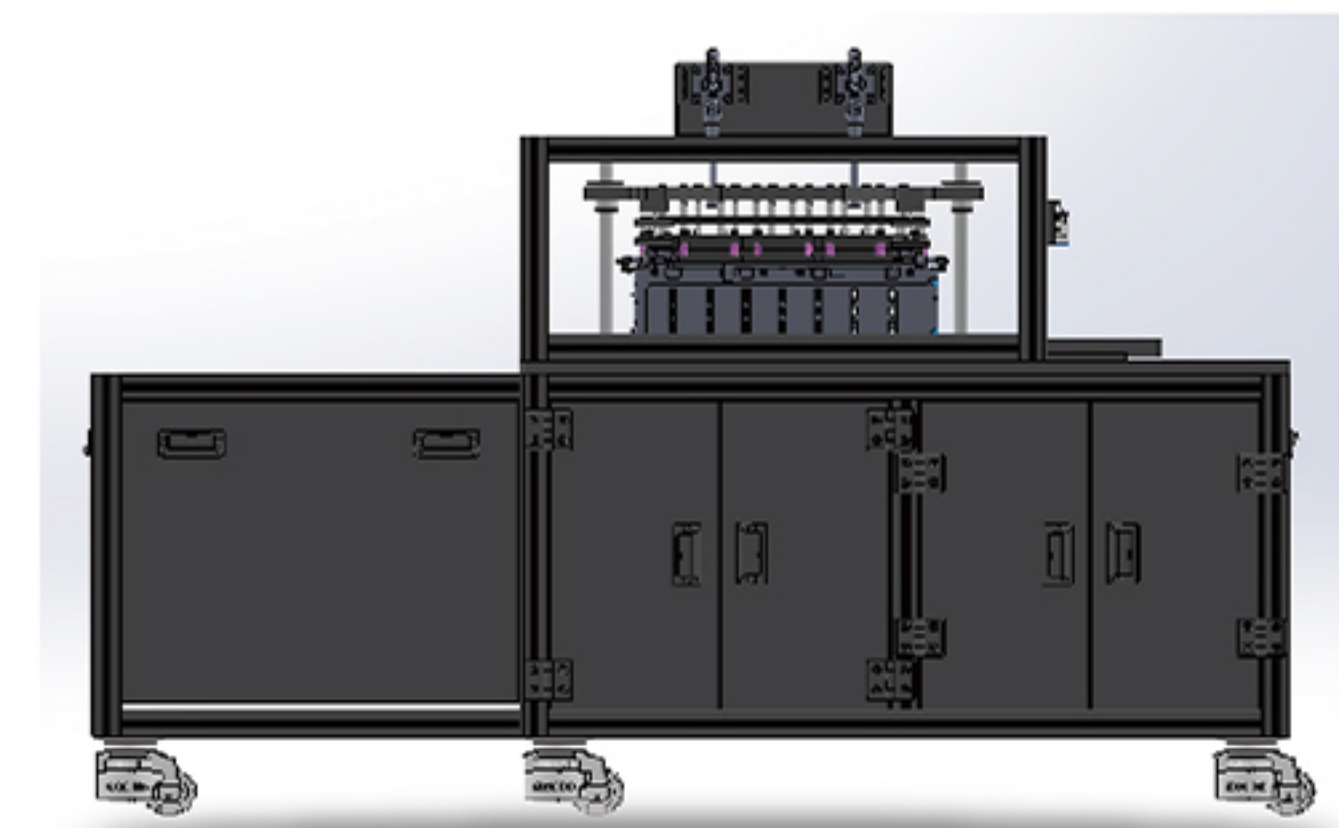
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 System Configuration



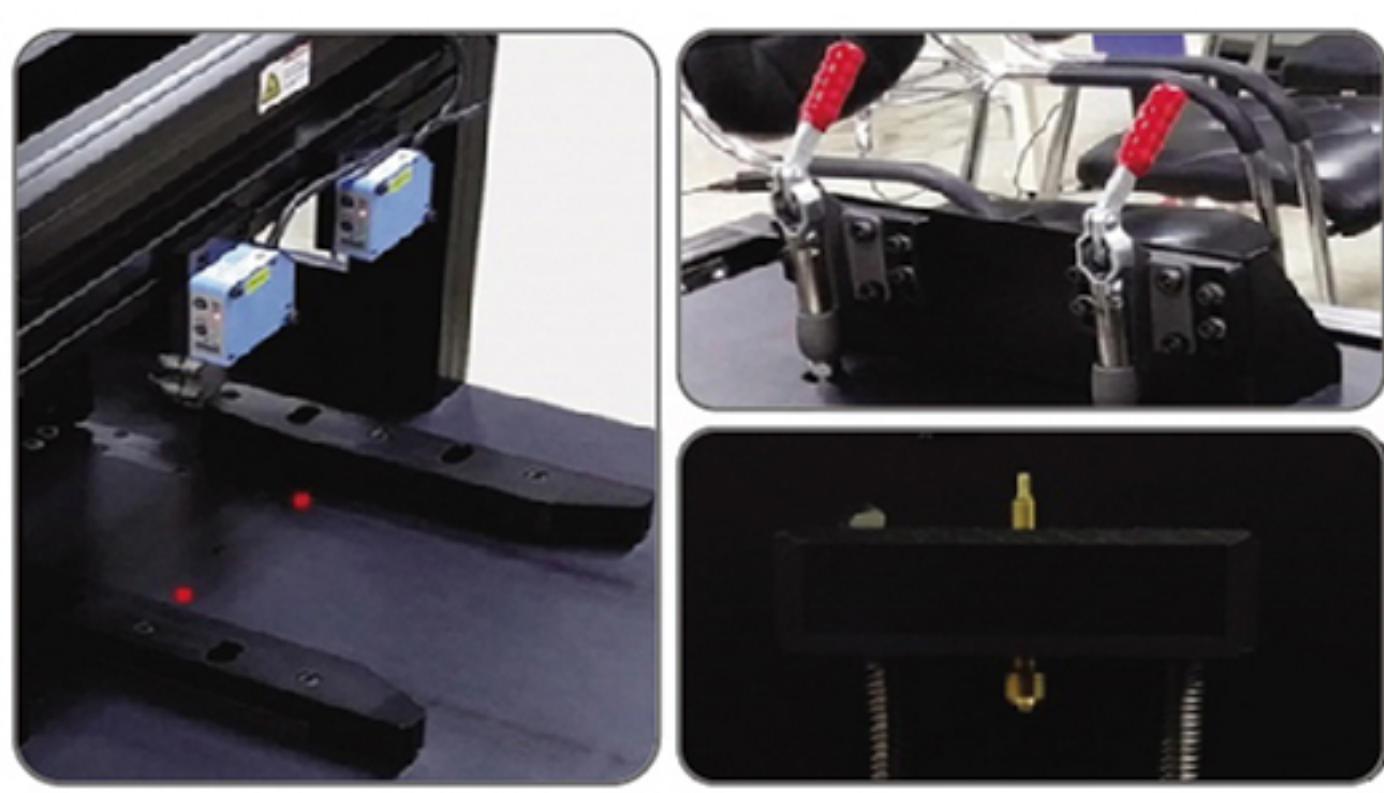
 System Components



<System Frame>



<Tester>



<Contact Unit>



<Measurement S/W>

 System Specification

Generals	Channel		1 Channel
	Size(mm)		(W)500 x (D)500 x (H)500
	Weight		< 150kg
	Power		220V/3A/Ø1
	Communication		Ethernet
	Test Sample Type / Size(mm)		Li Ion Battery Module / Max. 500 x 200 x 200
Component	Ohm Meter (Battery Parameter Tester)	DC-IR	Range: 1μΩ ~ 10kΩ, Accuracy: 1μΩ (Max. Test Current : 5A)
		AC-IR	Range: 10μΩ ~ 10kΩ, Accuracy: 1μΩ
		Reading Time	256 readings/sec
		Resolution	Min. 0.1μΩ

Component	JIG	Control Type	Manual
		Test Sample Load	Manual Input
		Support Test Sample	Battery Module
		Measurement Point	Weld Resistor 7 points, Both end side 2 points
		Contact Type	4 Point Probing using Pogo Pin
		Sample change	Contact JIG Change (Manual)
Software	Switching Unit		(9:1) x 4 channel
	Measurement Function		Position Resistance, Cell AC-IR, Cell OCV
	Data Processing		Pass/Fail Judgement, Statistical Result (Min./Max., Average, etc)
PC	Intel I5, HDD 500GB, 4G RAM, 23inch LCD Monitor, Window XP, Microsoft Excel		