

WBCS3000Le32RJIG

32 Channel Coin Cell Battery Test System with Coin Cell Jig



- *32 channel system with coin cell jig included*
- *Charge/Discharge Software: Battery Interface*
- *Techniques and various control modes for battery testing*
- *$\pm 100\text{mA}$ current over 4 current ranges*
- *Applied voltage range of $\pm 5\text{V}$*
- *Potentiostat/Galvanostat circuit*
- *High accuracy*
- *Sampling time of 10msec*
- *Plugin channels for easy maintenance*
- *LAN communication*

32 channel Battery Charge/Discharge Test System (with Coin Cell Jig) for coin cell test

The 32 channel battery test system, **WBCS3000Le32RJIG**, is designed with coin cell jigs and provides a battery test system configured with 32 channels.

Coin cells are often used to test the capacities and rate capabilities of new materials in the initial stage and the **WBCS3000Le32RJIG** can be a perfect choice for coin cell testing at high C-rates and half cell testing. Not only does the **WBCS3000Le32RJIG** support various techniques for battery studies, but also carries out electrochemical techniques such as corrosion test techniques, electro-analytical techniques, cyclic voltammetry, chronoamperometry, and potentiometry, etc. and this feature allows user to perform general Echem experiments.

The **WBCS3000Le32RJIG** has four current control ranges of 100uA to 100mA and voltage range of -5V to +5V as standard. The accuracy for current and voltage on these channels is $\pm 0.02\%$ FSR. The sampling time is 10msec.

The Battery Interface(BI) software is user-friendly and supports charge/discharge experiments with built-in techniques and user-defined protocols.

- easily making schedule files by using schedule editor
- selecting pre-defined techniques
- classifying/grouping channels by user's purpose
- monitoring detailed test data
- providing general/cycle graph format
- converting the data to ASCII or excel format

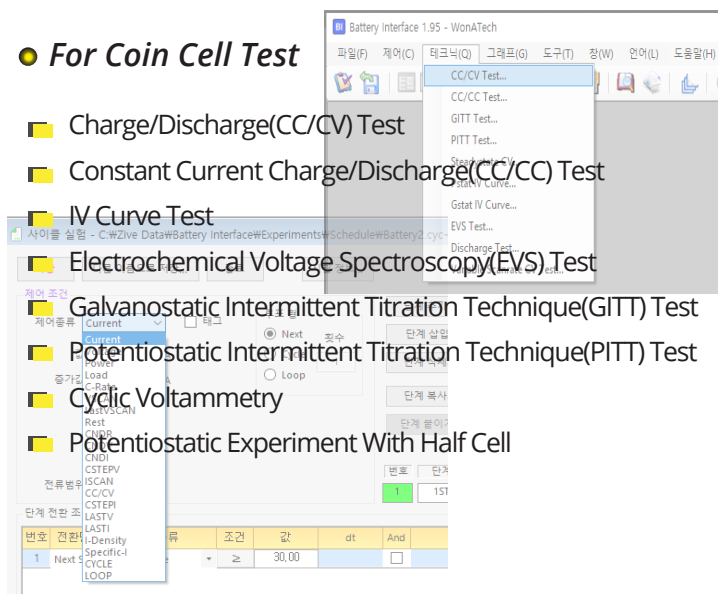
The **WBCS3000Le32RJIG** is configured by connecting a 32 channel battery test system(max.100 mA) with 32 channel coin cell jig, and it can communicate with the computer via a Local Area Network (LAN).

● Features

- Potentiostat/Galvanostat circuit : no time delay between the charge and discharge cycles.
- The system includes jigs for 32 channel coin cell testing, allowing direct use for coin cell test.
- Supports techniques for battery studies such as CC/CV test, CC/CC test, C-rate/CV test, CV test, as well GITT/PITT test for calculation of diffusion coefficient.
- Tests the coin cell to charge-discharge cycles at the required C-rate.
- High sampling rate for calculating dynamic charge/discharge capacity ratings.
- The various safety functions are provided to protect the cell and system from being damaged.
- The obtained data can be analyzed by IVMAN™ software without license code for further analysis.

● For Coin Cell Test

- Charge/Discharge(CC/CV) Test
- Constant Current Charge/Discharge(CC/CC) Test
- IV Curve Test
- Electrochemical Voltage Spectroscopy(EVS) Test
- Galvanostatic Intermittent Titration Technique(GITT) Test
- Potentiostatic Intermittent Titration Technique(PITT) Test
- Cyclic Voltammetry
- Potentiostatic Experiment With Half Cell



● Specifications

Control voltage range	±5V
Control current range	100mA, 10mA, 1mA, 100uA (4 ranges)
LED	Run: 1ea
Input impedance	10 ¹² Ohm
Cell connection	Connection with a 32 channel coin cell jig
No. of channels	32 (max. channels per case)
Max. channel No.	up to 128 channels (4set)
Voltage accuracy	±0.02% f.s.
Current accuracy	±0.02% f.s.

Voltage Control/Measurement

Full scale ranges	±5V
Resolution(16 bits)	0.15mV

Current Control/Measurement

Full scale ranges	max. 100mA@5V
Resolution	16 bit(0.0015% f.s)
Communication	TCP/IP
Sampling time	Standard - Le32 1set (max. 32 channels) : 10msec - Le32 2set (max. 64 channels) : 50msec - Le32 3set (max. 96 channels) : 50msec - Le32 4set (max. 128 channels) : 50msec With Option (Aux V and/or Temperature) - Le32 1set (max. 32 channels) : 20msec - Le32 2set (max. 64 channels) : 50msec - Le32 3set (max. 96 channels) : 50msec - Le32 4set (max. 128 channels) : 50msec

Size	W541xD455xH253.5mm (excluding jig)
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Coin Cell Jig

No. of channels	32
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All specifications are subject to change without notice.



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