NanoCycler™ BATTERY CYCLER SYSTEM FOR COIN CELLS

NANOBASE is a market leader in high resolution optical microscopy solutions for scientific and industry applications.

- Extremely cost effective – less than **$400** per channel.
- Easy of use – directly accepts **2025**, **2032 coin cells**.
- Simplicity – directly connects to PC via USB.
- Very compact – fits directly in many constant temperature chambers.

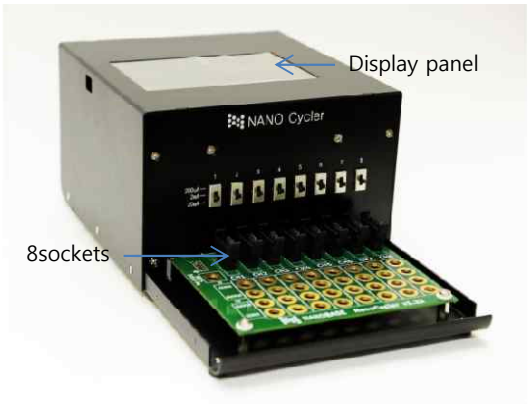
Many advanced battery research starts with coin cells. However, most researchers are forced to use standard battery cyclers designed for testing large cells such as 18650 cells and are not only paying for overpriced battery cyclers but also paying for unused features and accessories such as high current ranges, cables, and coin cell racks. **NanoCycler** is developed for and only for testing coin cells and is priced below $400 per channel. Researches can now focus on their main research without having to wait for a free battery cycler channel.

SPECIFICATIONS

ELECTRICITY	• 88 ~ 264 VAC or 125 ~ 373 VDC • 80 W (max)
VOLTAGE	• Range: 0 ~ 5V • Accuracy: ±0.1% FS • Measurement resolution: 16 bit • Programming resolution: 14 bit
CURRENT*	• Range: 3 manually selectable ranges 200 uA, 2 mA, 20 mA • Accuracy: ±0.1% FS • Measurement resolution: 16 bit • Programming resolution: 14 bit
DATA RECORDING RATE	• 1 kHz (max) • 0.001s ~ 9999s
CHANNELS	• 8 independent channels per NanoCycler • Sockets for 2025, 2032 coin cells. • Greater than 80 channels per PC. (limited by PC speed and available USB ports)
S/W	• Sequence editor - Step & loop sequence programming • Channel monitor & control • Channel summary • General plot • Cycle plot • Data export to csv files.
DIMENSIONS	• 153 x 270 x 107 (mm)

*** Custom current range is possible**
i.e. 2 mA, 20 mA, 200 mA

SYSTEM IMAGE



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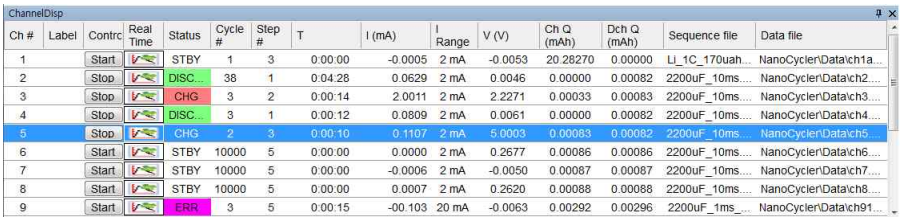
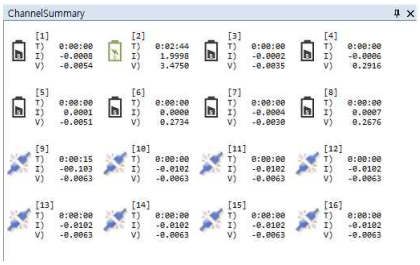
CHANNEL CONTROL & MONITOR



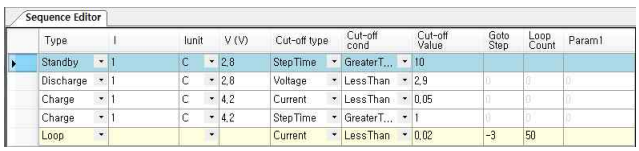
- Channel Start/Stop control with password protection
- Displays Cycle #, Step #, Elapsed time, current, voltage, Q, Sequence file, Data file

CHANNEL SUMMARY



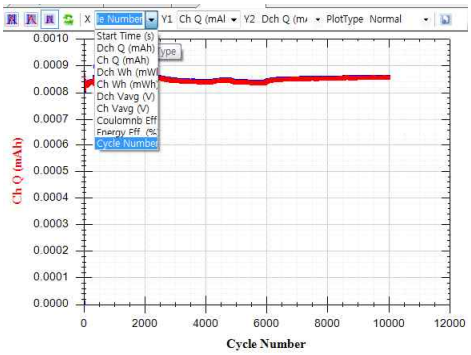
- Displays charge/discharge/standby/error status of all channels as icons.
- Elapsed time, current, voltages are displayed.

SEQUENCE EDITOR



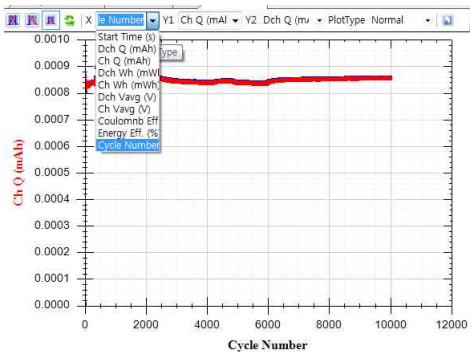
- Step types: Charge, Discharge, Standby, Loop, JumpIf
- Cut-off types: Voltage, Current, Step Time, Cycle Time, Capacity

CYCLE PLOT



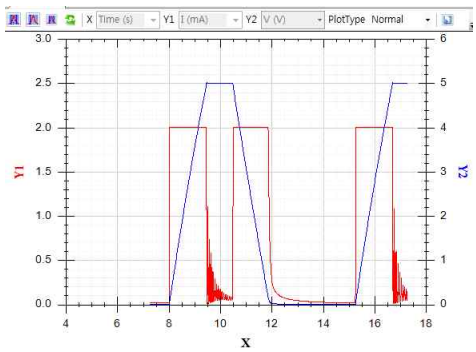
- X and Y-axis: Start time, Dch/Ch Q, Dch/Ch Wh, Dch/Ch Vavg, Coulomnb/Energy efficiency, Cycle Number

GENERAL PLOT



- X and Y-axis: Start time, Dch/Ch Q, Dch/Ch Wh, Dch/Ch Vavg, Coulomnb/Energy efficiency, Cycle Number

REAL-TIME PLOT



- X-axis: time
- Y1-axis: I (mA)
- Y2-axis: V (V)

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