# Landt Instruments

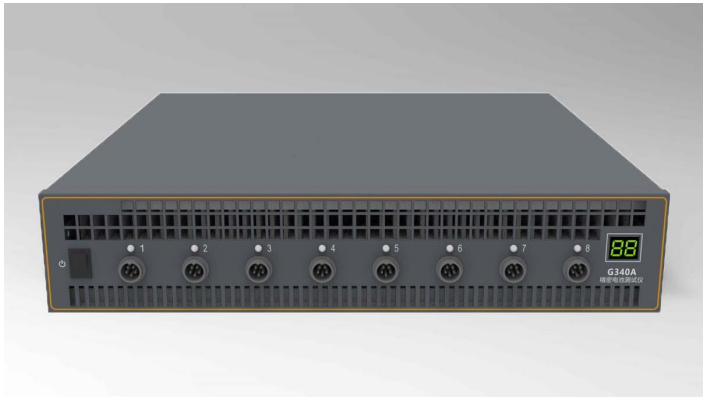
# Battery Test Systems Quick Start Guide

Model M340A/G340A/D340A/D350A
High Precision Battery Test Systems

**Read this guide first.**
Please read this guide before operating this equipment. The remarks for detailed instructions are described in the Instruction Manual. After you finish reading the Start Guide, store it in a safe place for future reference.

# Checking the supplied accessories

- M/G/D340A Tester Units
- Ethernet Cables (2 meters)
- Router (Ethernet Hubs)
- Channel Cables with Clamps (alligator clips and/or coin/pouch cell clips)
- Starter Guide

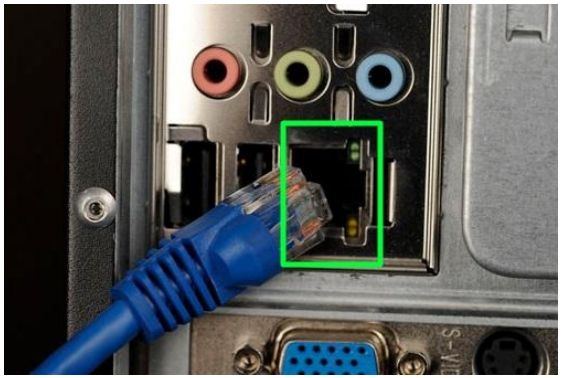



10M/100M Router

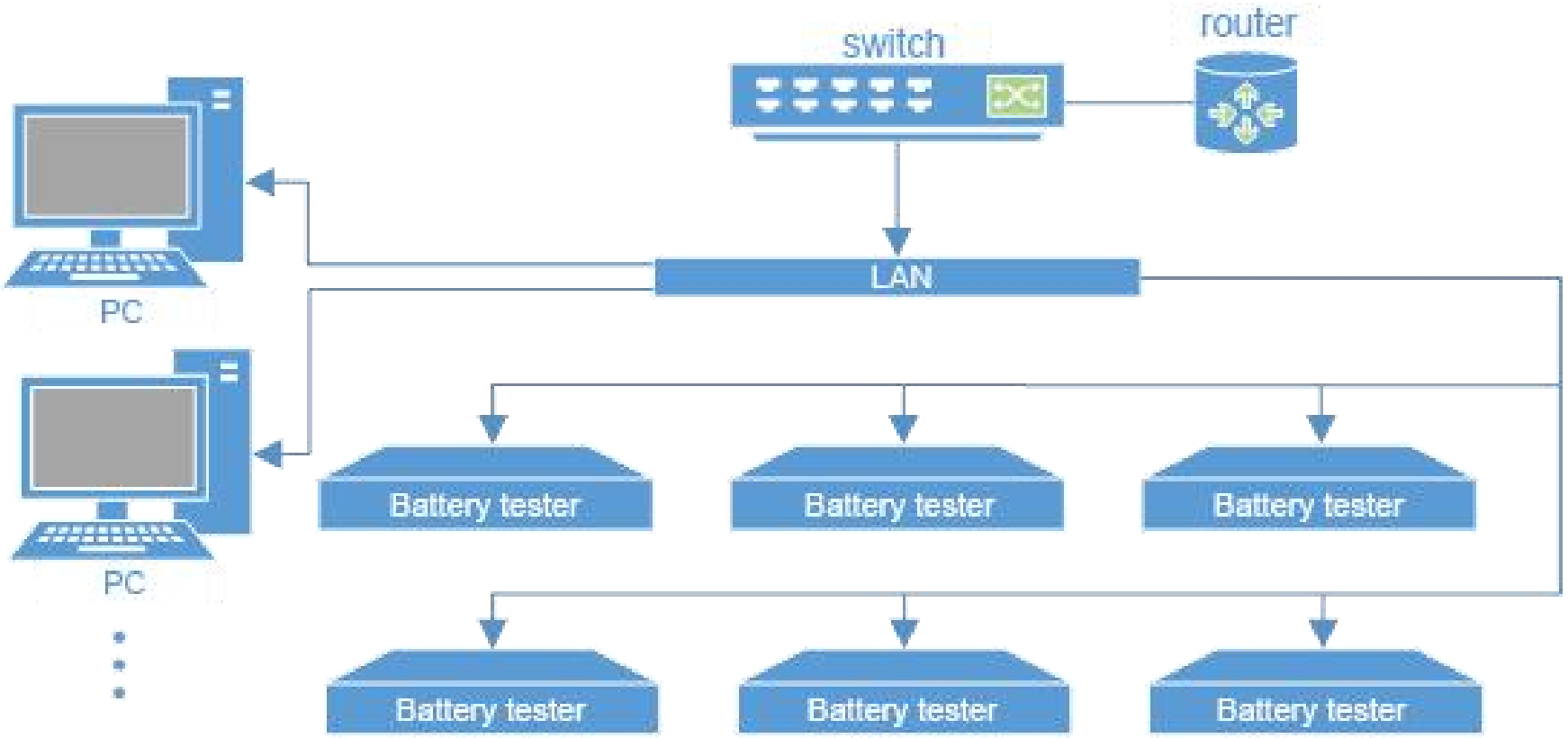
# You need to get a computer ready (with Ethernet port RJ45)

- Recommended configuration
  - CPU i5 or better
  - RAM 8G or better
  - Recommend SSD 120G or more
  - Windows 7/10
  - Support NTFS file format
  - 100M Ethernet Port
- Install the software V4.3
  - www.landtinst.com/precision-download/

Ethernet RJ45



# Connecting




- Multiple tester units and the computer are connected with an Ethernet Switch/Router
- Multiple Ethernet Switches are connected with a router

# Start the equipment

- Plug in the power for battery testers/router
- Switch on the battery testers


Channel Indicator

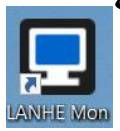
- Red - Charging
- Blue - Discharging
- Green - Rest
- Yellow - Pause

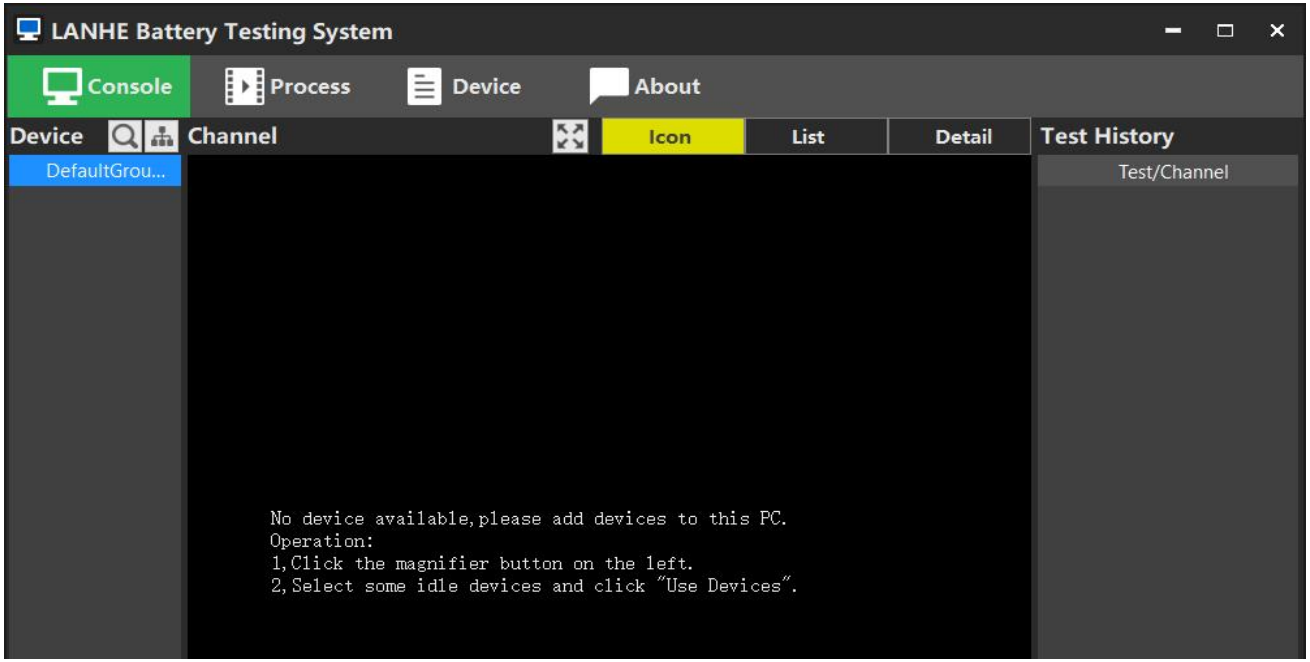
Unit Number Indicator

2-digit Yellow LED (need to define later by users)

# Connecting

- The testers are controlled by LAHE Programs
- Start the LANHE Mon program

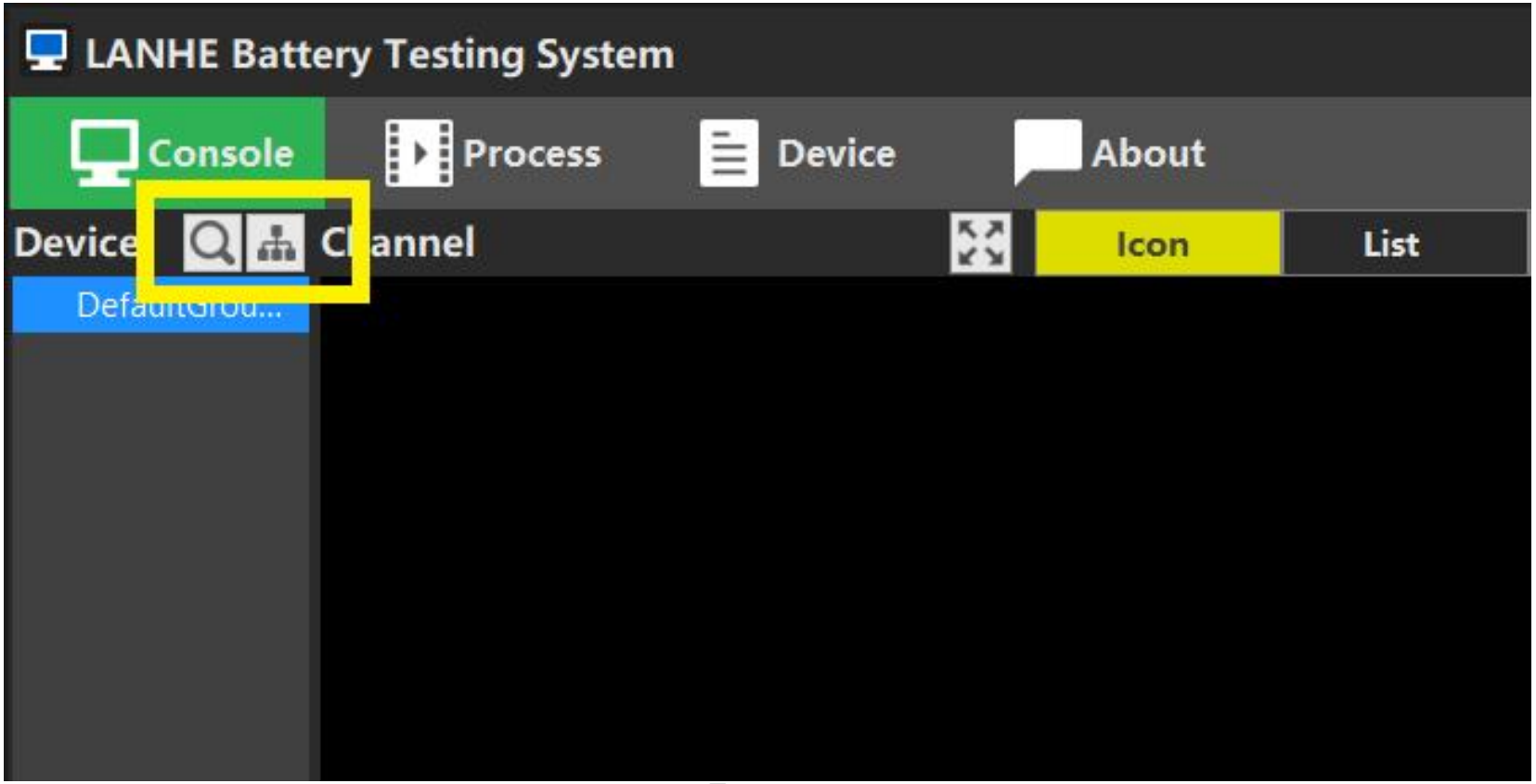


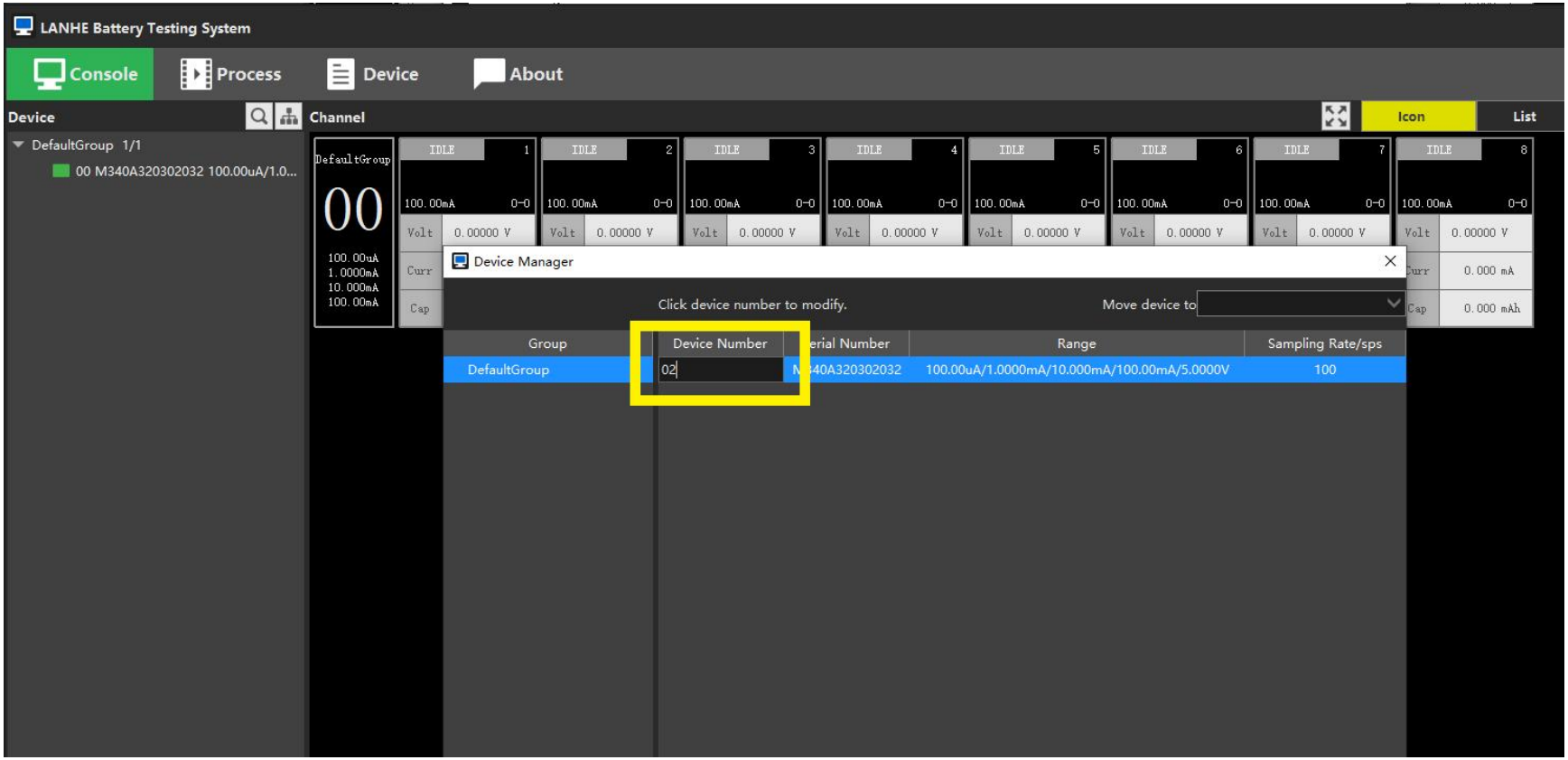

- Console shows Devices, Channels and Test log
- Process shows all the test programs saved. It can be edited offline
- Device - Summary of all devices and channels with current ranges

# Search for Testers

- In the Console, click the “Search” icon to search for new testers. Click “Device Manager” icon to assign a Unit Number (IP Address) for each tester (01-99)

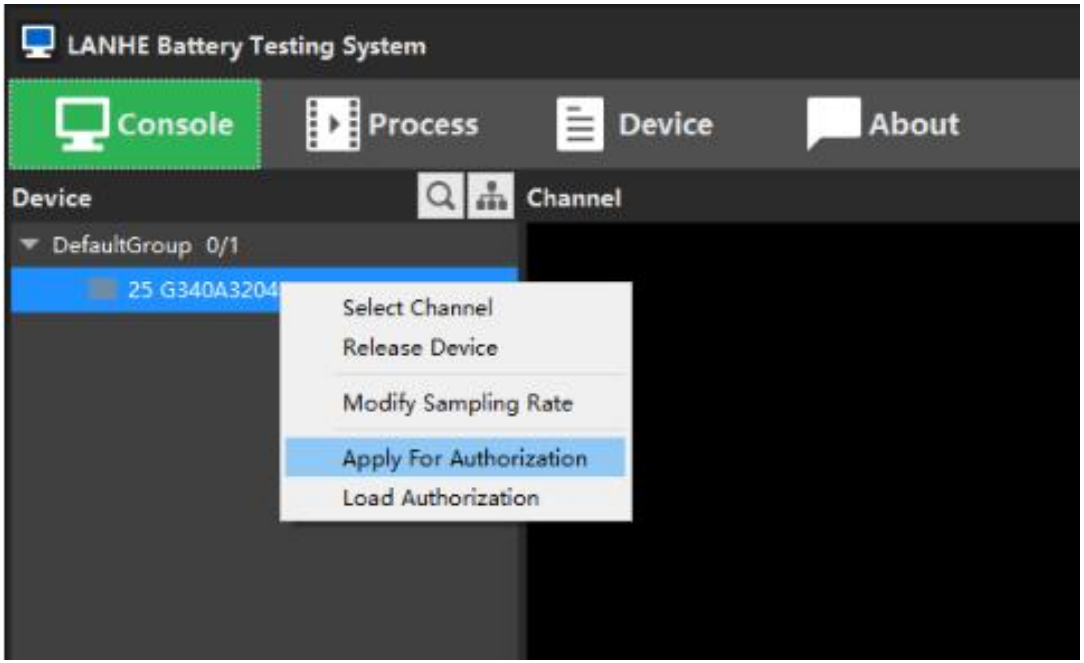


# Defining Unit Number



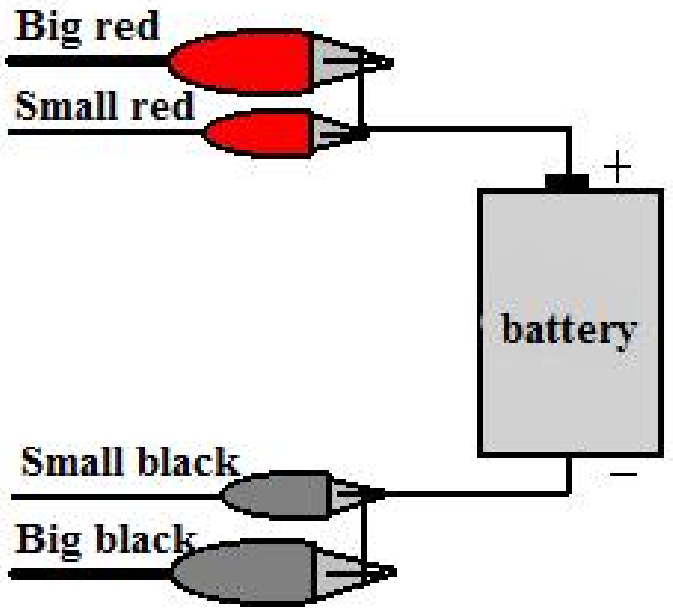

The number indicated on the 2-digit LED panel on the battery tester should change accordingly

# Software Authorization




- Un-authorized software can only be used temporarily
- When all the testers are connected, select all, right click and “Apply for Authorization”. Save the “ini” file
- Send the ini file to landt@landtinst.com to get the authorization file.

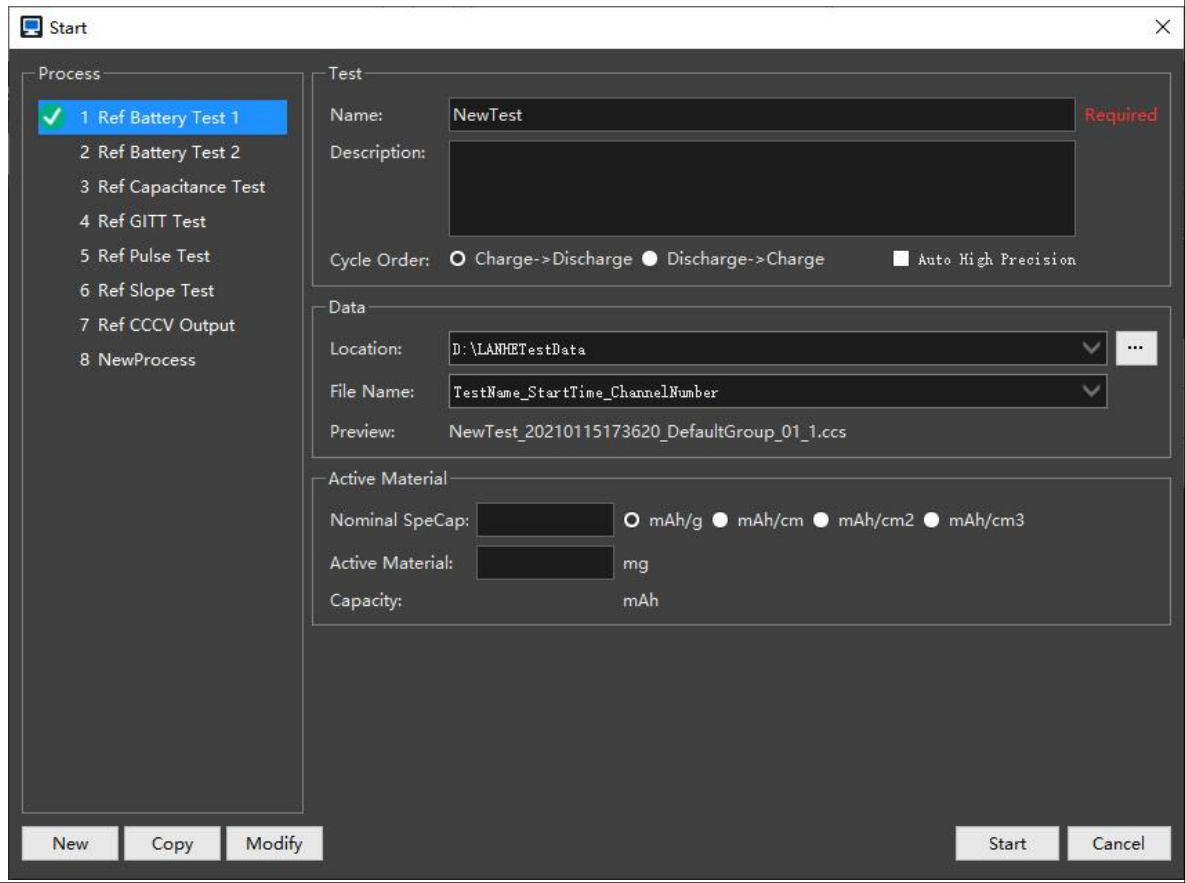
# Connecting the battery



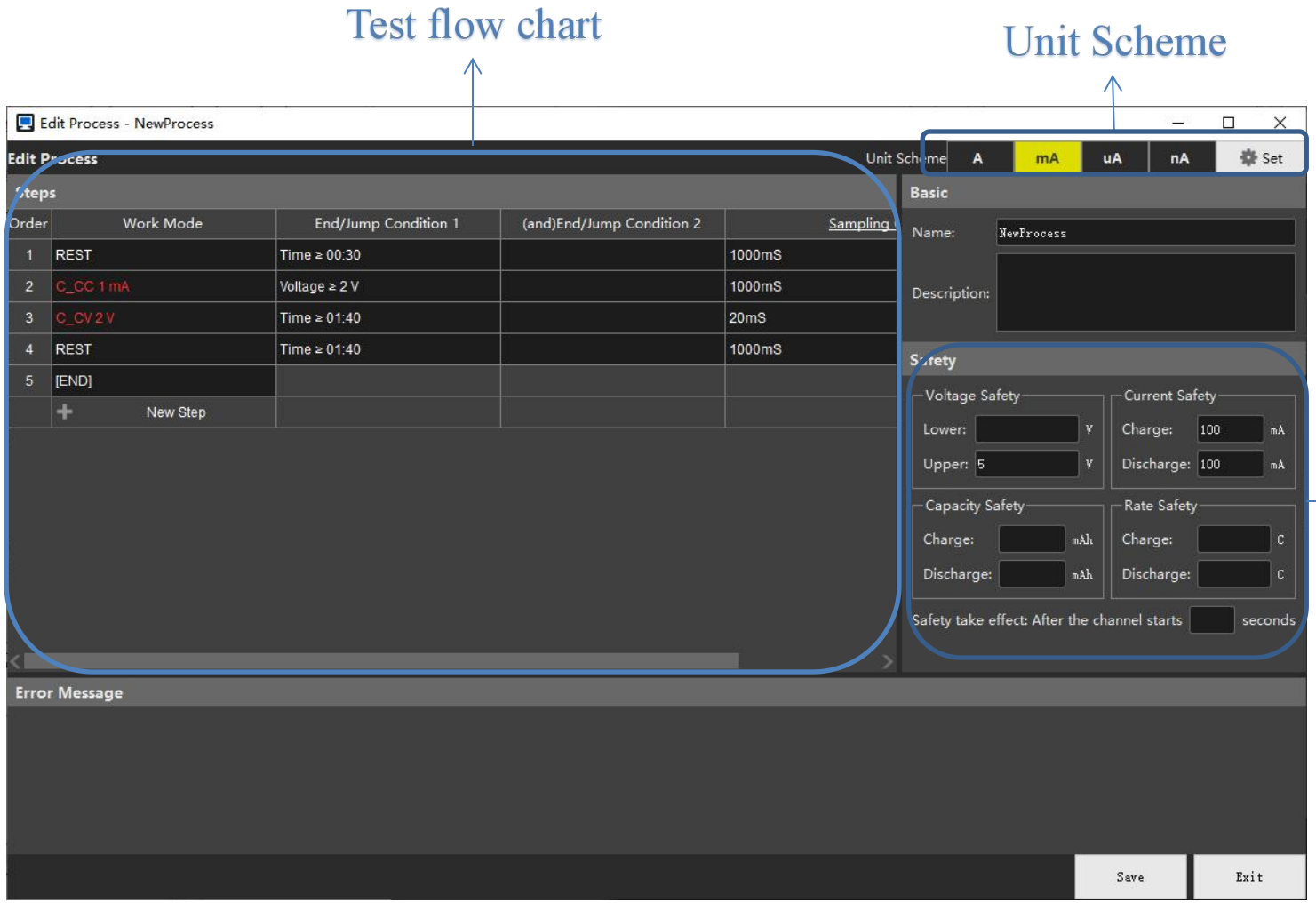

- Big clips for current output/input, little clips for voltage measurement,
- Red clips connecting the positive terminal of a battery, black clips connecting the negative.

# Start a test

- Select a channel: Right click the channel → Click “Start”
- Double click a process to edit test steps



# Schedule a program




Test process can be saved for future use

# Test Setup – Working Steps

- Rest: No current, OCV record
- C_CC: Constant Current Charge
- C_CV: Constant Voltage Charge
- C_CP: Constant Power Charge
- C_CRATE: Constant C-rate Charge
- C_CCCV: Constant Current Charge followed by Constant Voltage Charge
- C_PULSE: Pulse charge
- C_SLOPE: Charge with a current slope

- D_CX: Constant XXX Discharge

- Loop: cycling loops
- Jump: to jump to another step
- Pause: pause
- End: last step

Should you have any questions

Contact us:


**Landt Instruments**

Phone|Fax: (888)505-1296

Email: landt@landtinst.com

Website: www.landtinst.com