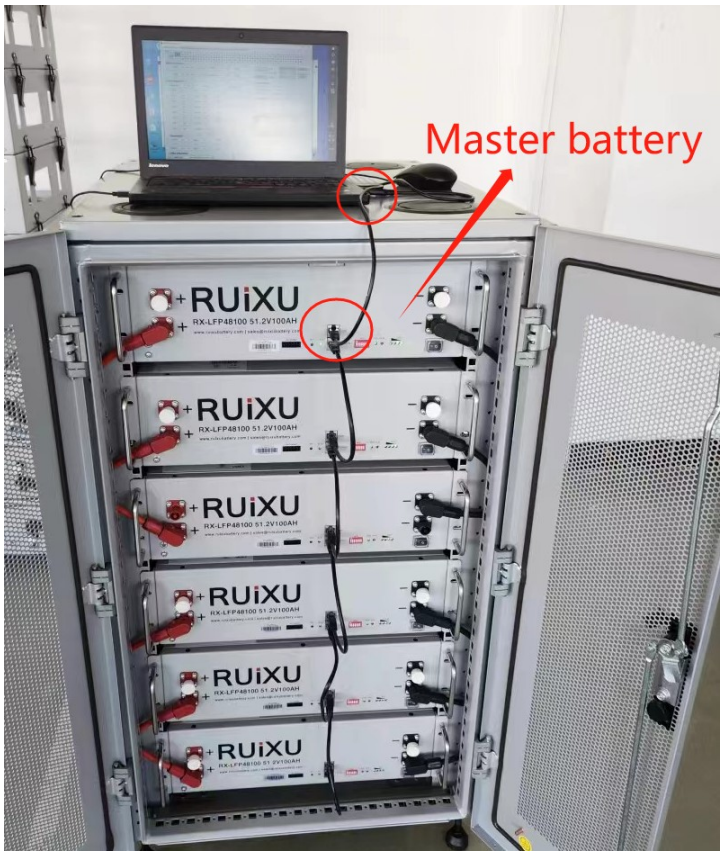
RuiXUTool Software Operation Instruction

1. Connect the upper computer to the BMS

1.1 RS485 connection

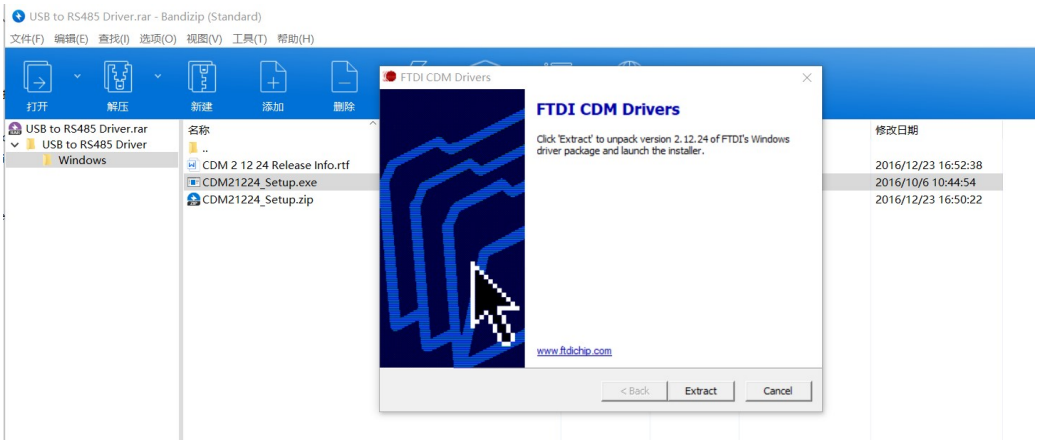
1.1.1 Connect the RS485-USB communication cable to the master battery and computer



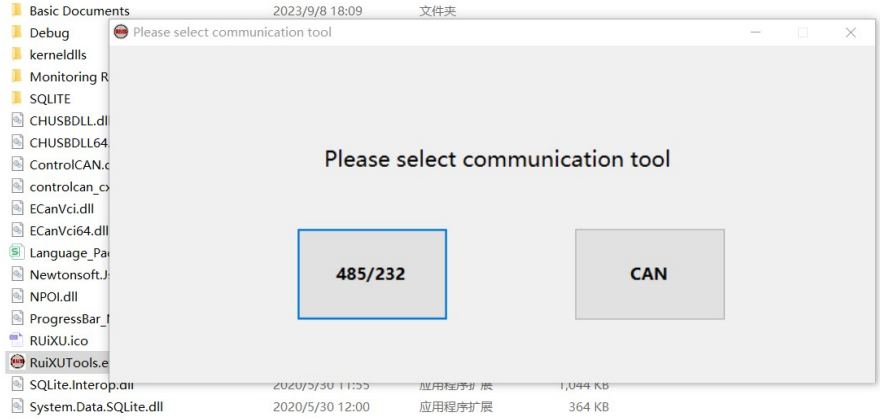


1.1.2 Open the software package, install the USB to RS485 driver

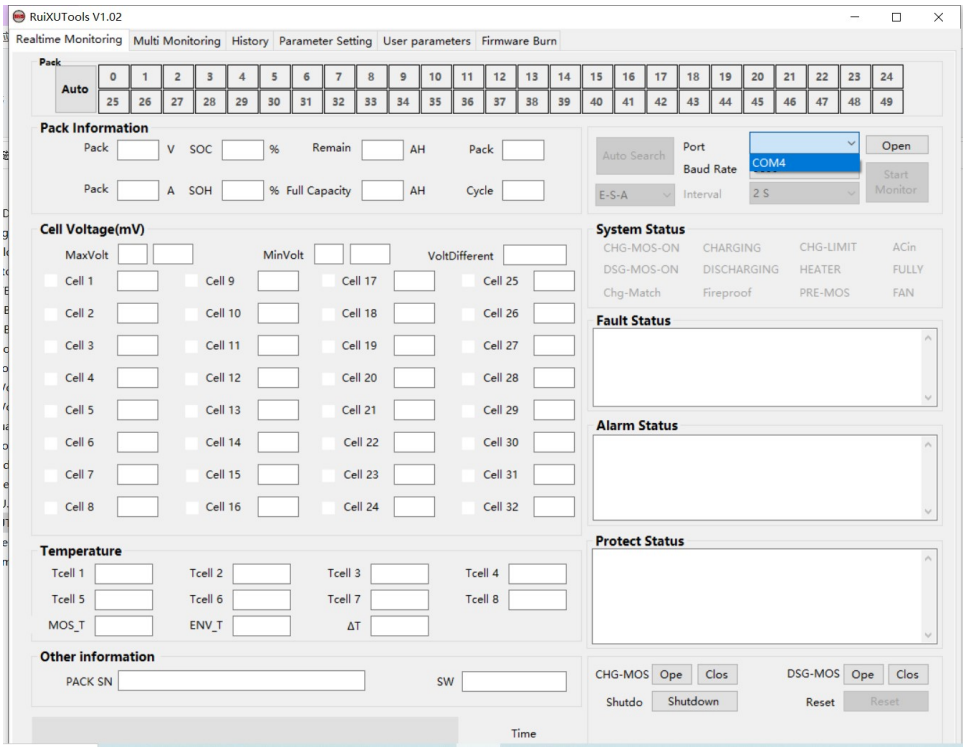


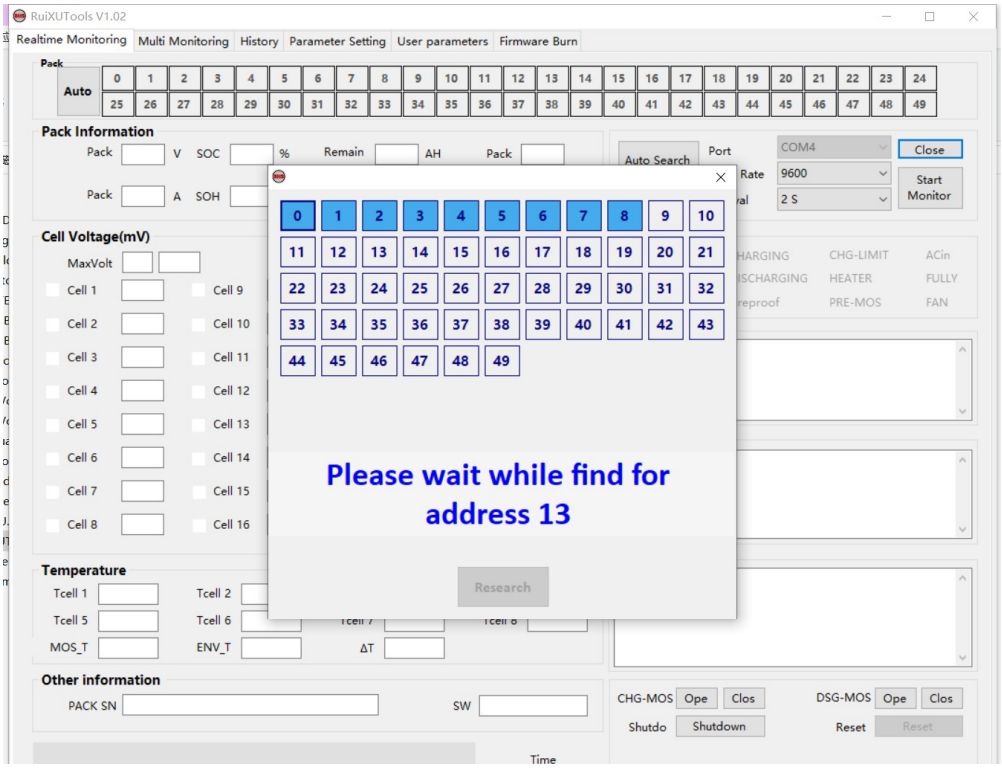


1.1.3 Then unpack the RuiXUTools package, double-click ruixutools. exe to run the program

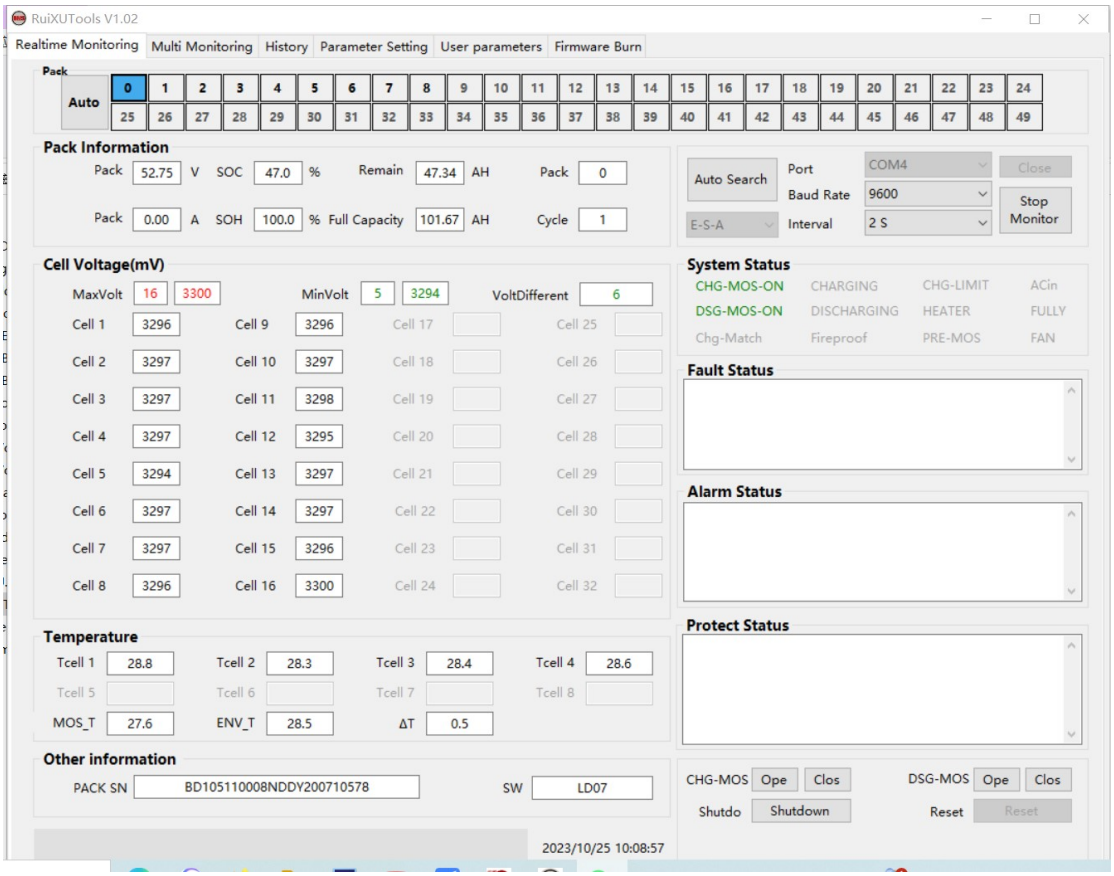


1.1.4 Select the 485/232 option, and then select port on the real-time monitoring page, the baud rate is generally selected 9600 (following the baud rate selected by the master battery DIP switch), click open, and the computer automatically begins to search for the connected battery.





1.1.5 After the connection succusses, you can view the battery information on the real-time monitoring page. Pack indicates the battery serial number. A bold serial number indicates that the battery is connected. Click the mouse to select, and the background of the selected battery serial number will turn blue.

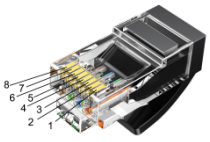


1.2 CAN bus connection

Use the appropriate CAN analyzer and connect the computer according to the corresponding CAN wire sequence in the table below. It should be noted that the CAN analyzer does not need to be connected to the 120Ω resistor.

Run the RuiXUTools.exe and select the CAN connection mode, which is similar to that of RS485.

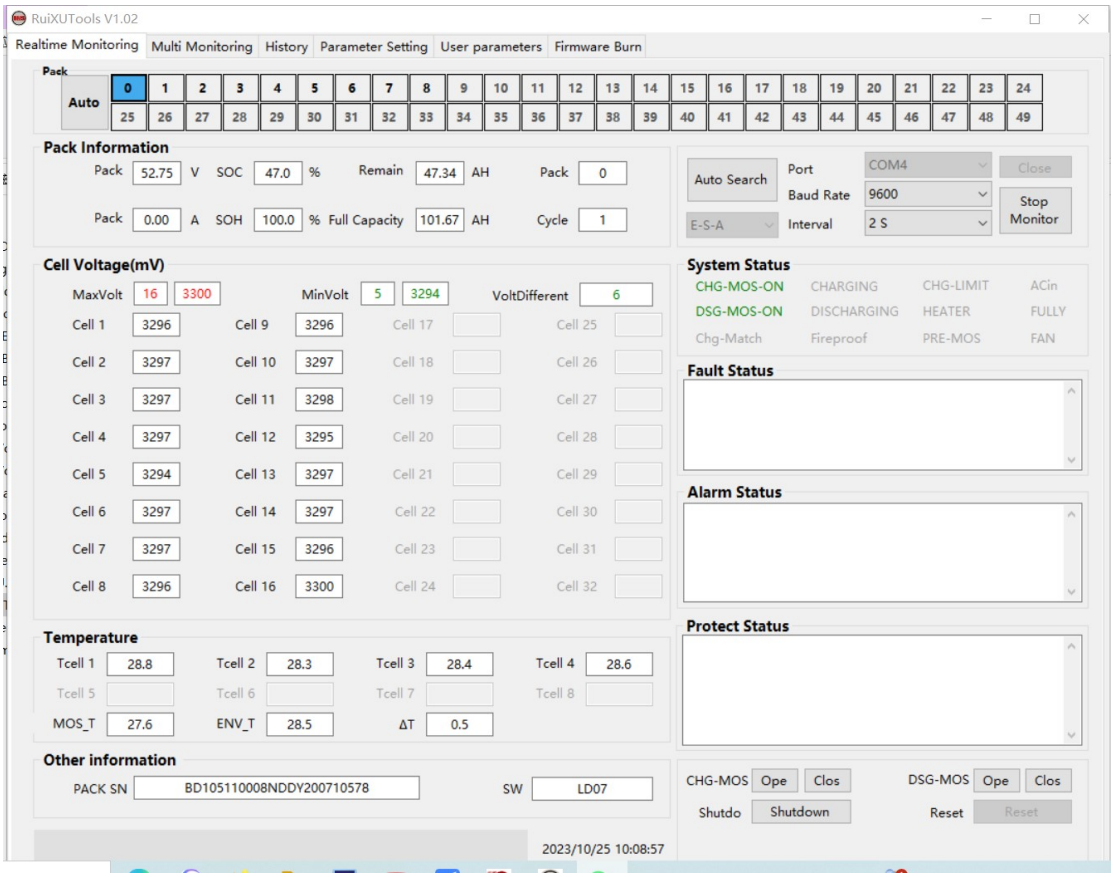
Pin NO.	BMS Definition	Line Colour (T568B)
1	485_B-	Orange-white
2	485_A+	Orange
3	GND	Green-white
4	CAN_H	Blue
5	CAN_L	Blue-white
6	GND	Green
7	485_A+	Brown-white
8	485_B-	Brown





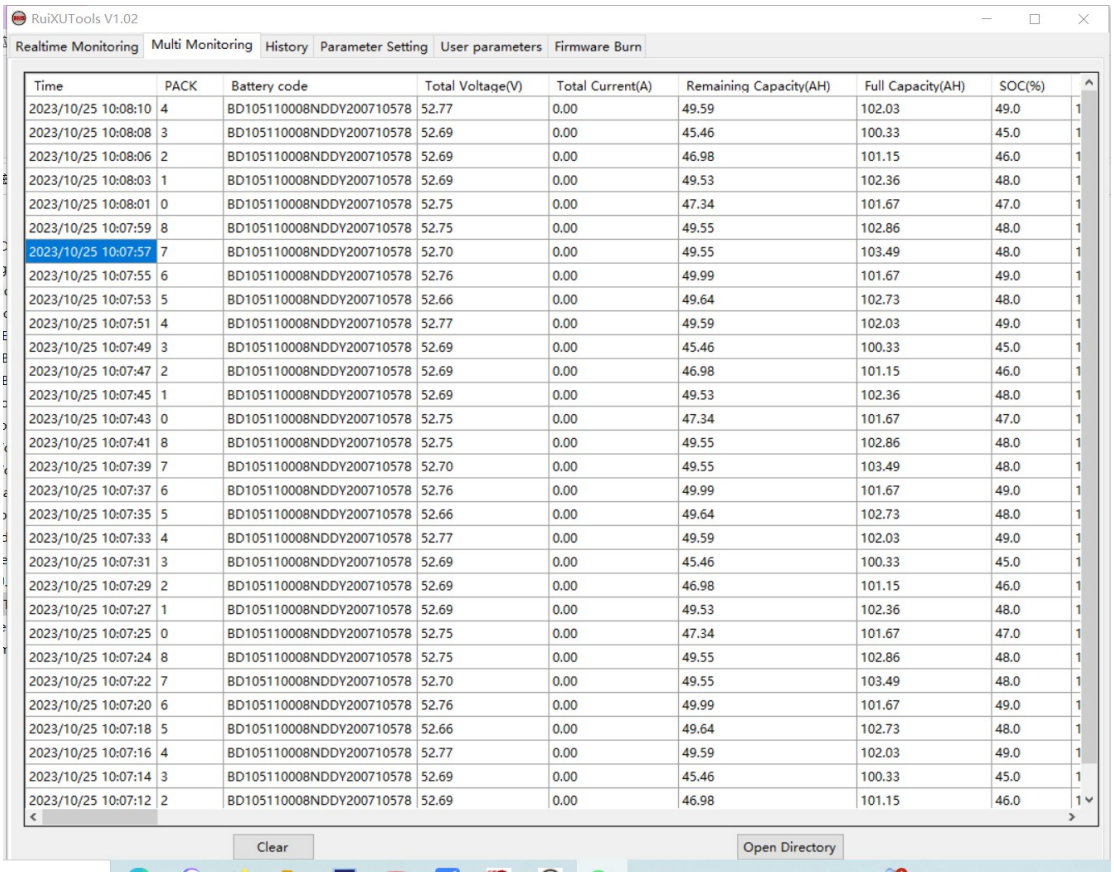
2. Real-time monitoring

The monitoring content includes real-time acquisition of battery information, cell voltage, temperature information, system status, battery pack number, and firmware version



3. Multi monitoring

This page displays real-time monitoring records. Click "Open Save directory" to open the xls file where the records are saved in the folder.



Time	PACK	Battery code	Total Voltage(V)	Total Current(A)	Remaining Capacity(AH)	Full Capacity(AH)	SOC(%)
2023/10/25 10:08:10	4	BD105110008NDDY200710578	52.77	0.00	49.59	102.03	49.0
2023/10/25 10:08:08	3	BD105110008NDDY200710578	52.69	0.00	45.46	100.33	45.0
2023/10/25 10:08:06	2	BD105110008NDDY200710578	52.69	0.00	46.98	101.15	46.0
2023/10/25 10:08:03	1	BD105110008NDDY200710578	52.69	0.00	49.53	102.36	48.0
2023/10/25 10:08:01	0	BD105110008NDDY200710578	52.75	0.00	47.34	101.67	47.0
2023/10/25 10:07:59	8	BD105110008NDDY200710578	52.75	0.00	49.55	102.86	48.0
2023/10/25 10:07:57	7	BD105110008NDDY200710578	52.70	0.00	49.55	103.49	48.0
2023/10/25 10:07:55	6	BD105110008NDDY200710578	52.76	0.00	49.99	101.67	49.0
2023/10/25 10:07:53	5	BD105110008NDDY200710578	52.66	0.00	49.64	102.73	48.0
2023/10/25 10:07:51	4	BD105110008NDDY200710578	52.77	0.00	49.59	102.03	49.0
2023/10/25 10:07:49	3	BD105110008NDDY200710578	52.69	0.00	45.46	100.33	45.0
2023/10/25 10:07:47	2	BD105110008NDDY200710578	52.69	0.00	46.98	101.15	46.0
2023/10/25 10:07:45	1	BD105110008NDDY200710578	52.69	0.00	49.53	102.36	48.0
2023/10/25 10:07:43	0	BD105110008NDDY200710578	52.75	0.00	47.34	101.67	47.0
2023/10/25 10:07:41	8	BD105110008NDDY200710578	52.75	0.00	49.55	102.86	48.0
2023/10/25 10:07:39	7	BD105110008NDDY200710578	52.70	0.00	49.55	103.49	48.0
2023/10/25 10:07:37	6	BD105110008NDDY200710578	52.76	0.00	49.99	101.67	49.0
2023/10/25 10:07:35	5	BD105110008NDDY200710578	52.66	0.00	49.64	102.73	48.0
2023/10/25 10:07:33	4	BD105110008NDDY200710578	52.77	0.00	49.59	102.03	49.0
2023/10/25 10:07:31	3	BD105110008NDDY200710578	52.69	0.00	45.46	100.33	45.0
2023/10/25 10:07:29	2	BD105110008NDDY200710578	52.69	0.00	46.98	101.15	46.0
2023/10/25 10:07:27	1	BD105110008NDDY200710578	52.69	0.00	49.53	102.36	48.0
2023/10/25 10:07:25	0	BD105110008NDDY200710578	52.75	0.00	47.34	101.67	47.0
2023/10/25 10:07:24	8	BD105110008NDDY200710578	52.75	0.00	49.55	102.86	48.0
2023/10/25 10:07:22	7	BD105110008NDDY200710578	52.70	0.00	49.55	103.49	48.0
2023/10/25 10:07:20	6	BD105110008NDDY200710578	52.76	0.00	49.99	101.67	49.0
2023/10/25 10:07:18	5	BD105110008NDDY200710578	52.66	0.00	49.64	102.73	48.0
2023/10/25 10:07:16	4	BD105110008NDDY200710578	52.77	0.00	49.59	102.03	49.0
2023/10/25 10:07:14	3	BD105110008NDDY200710578	52.69	0.00	45.46	100.33	45.0
2023/10/25 10:07:12	2	BD105110008NDDY200710578	52.69	0.00	46.98	101.15	46.0

4. History

4.1. Read the history

Click "Read" and wait for the progress bar to complete. The pop-up completion prompt box indicates that all reading is completed.

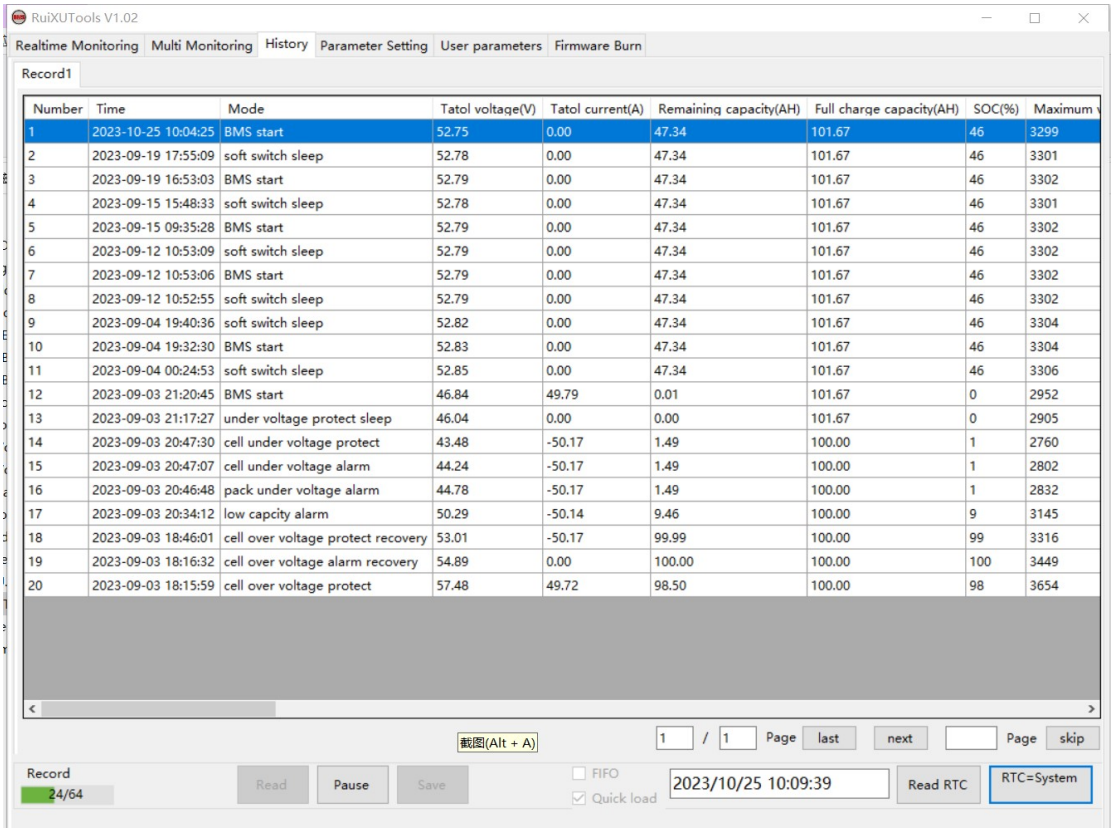
4.2. Export your history

Click Save. The save file window is displayed. Select the save path and save name to export the file to excel file.

4.3.BMS System time

Click "Read RTC" to read the BMS system time

Click "RTC= System time" to set the BMS system time in line with the computer time



5. Parameters setting

5.1. Read parameters

Click "Read" to read a single parameter.

Click "Batch Read Parameters" to obtain all configurable parameters of the BMS, and a success/failure prompt window is displayed

5.2. Set parameters

Click Batch Write Parameters to set all parameters at one time, and a success/failure dialog box is displayed

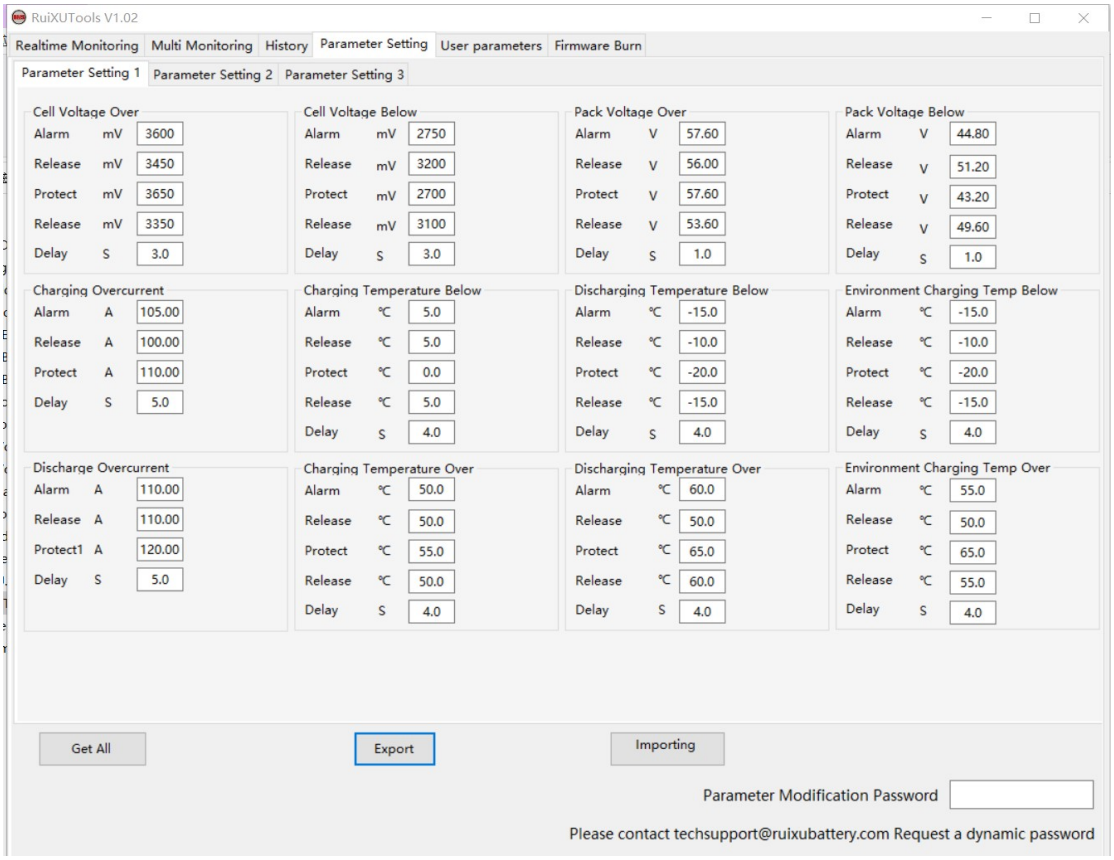
5.3. Export/import parameters

Click Export Parameters to export the parameter file supported by the host computer.

Click "Import Parameters" to import the parameter file to the host computer.

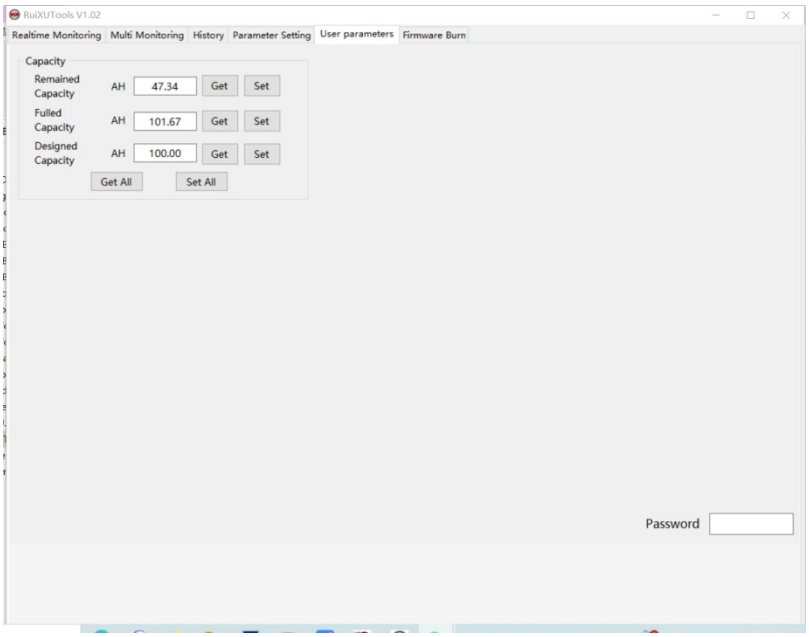
5.4. Restore factory Settings

Click "Restore Factory Settings" to restore the BMS to the pre-factory parameter Settings.



5. User parameters.

You can obtain information about capacity settings



6. Firmware burn

You can view firmware information.

Procedure Upgrade the BMS firmware

a. Read the current BMS firmware information and confirm the version information

b. Click Open File and select the corresponding upgrade file

c. Click "Burn" to start the upgrade

d. Wait for the upgrade result. PASS indicates that the upgrade succeeds, and FAIL indicates that the upgrade fails

e. If the upgrade fails, click "Burn" again. If the upgrade fails after multiple attempts, contact engineers for help.

