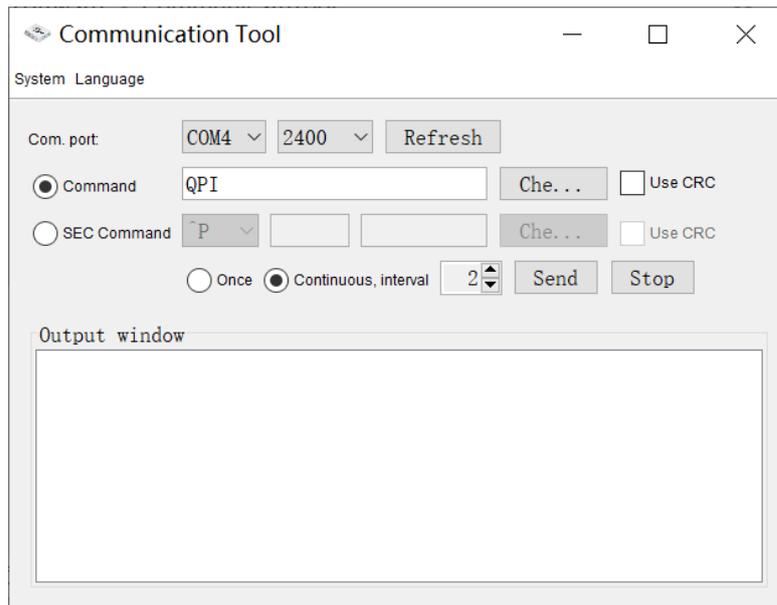


● Turn on the debugging assistant

1. Down load the communication tool through below link then install this software on the computer.

https://drive.google.com/file/d/10QilyzmeofymDeDQ7A5_7jvbJqAIrLRp/view?usp=sharing

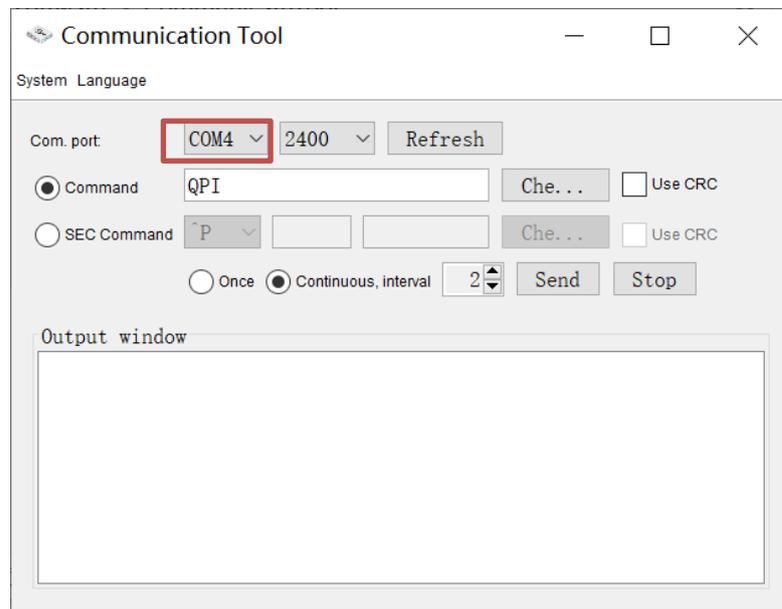
2. See the following interface, Successfully enter the debugging assistant



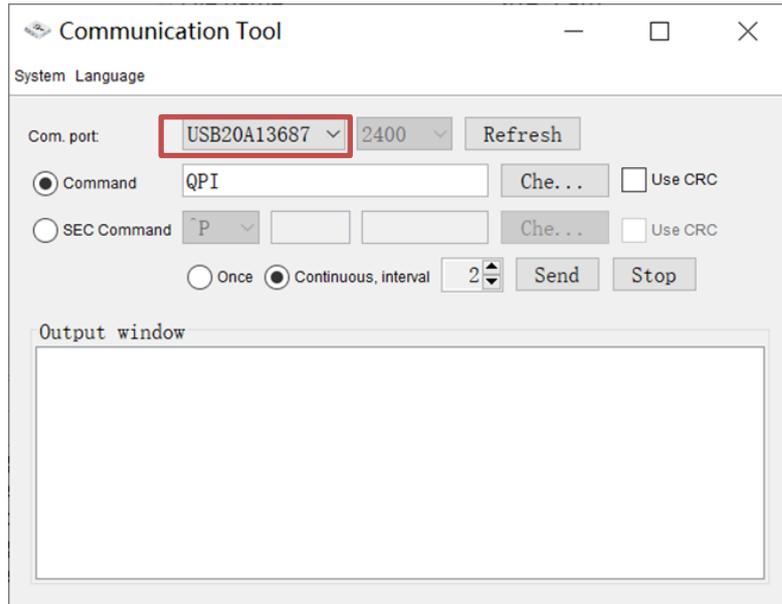
● Select communication line

The communication line can choose RS232 or USB, Correspondingly connect to the machine

1. Click the Refresh button to Refresh the serial port, If the connection is RS232, the interface appears as COMn (n is the serial number of COM) , as shown in the red box.



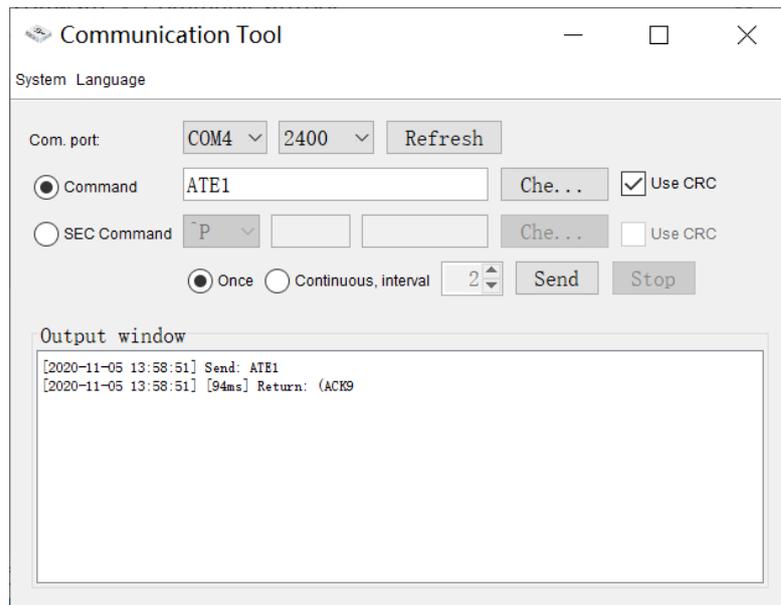
2. If the connection is USB, the interface appears as USBnnnnnnnn (nnnnnnnn is a random sequence number) , as shown in the red box.



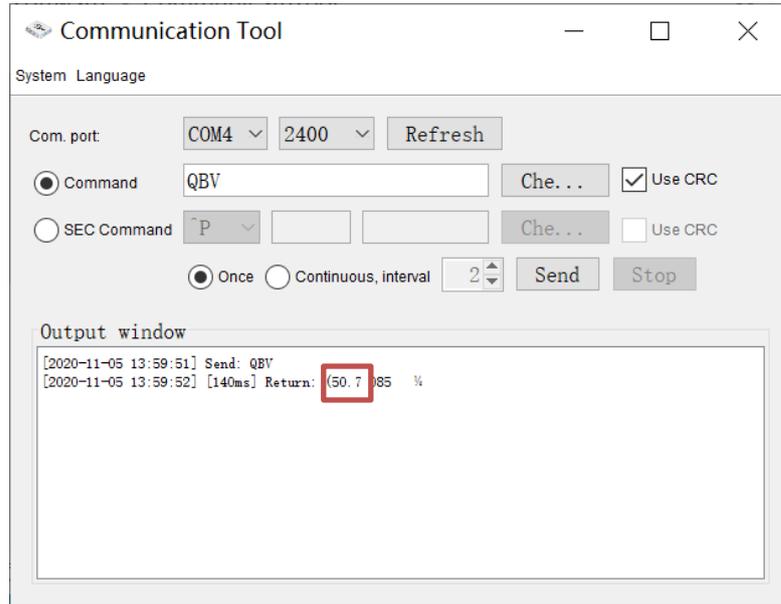
● Calibration battery voltage

The machine works in Battery mode, Enter only the battery, Disconnect the load, Keep the battery voltage stable, Calibration command is the same when use the RS232 or USB, The following operation takes RS232 as an example

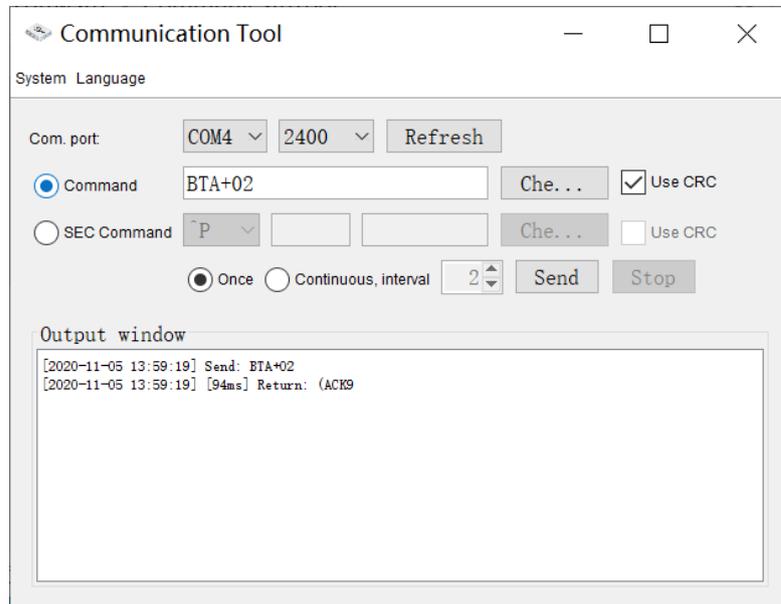
1. Send command "ATE1" in the Command column, Concurrent execution Use CRC and Once, Return "(ACK9" command sends success.

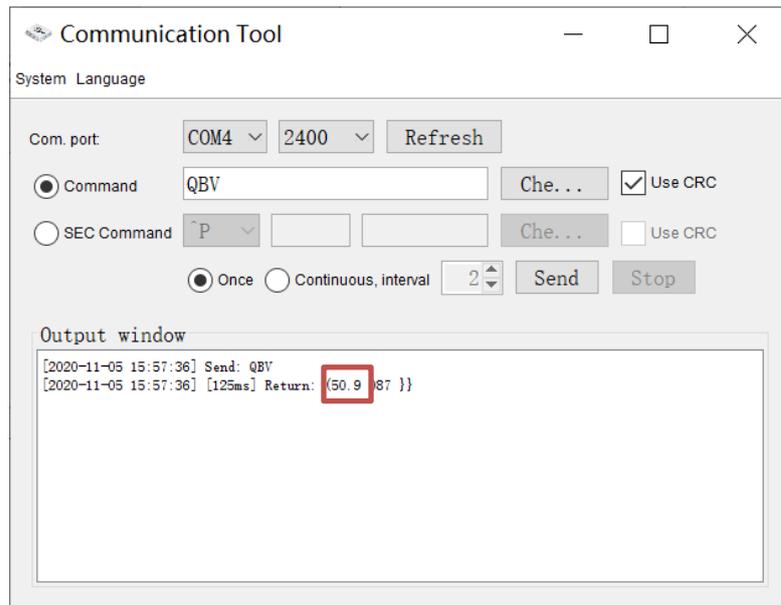


2. Switch to dc voltage block with multimeter, Measure the voltage of the battery input terminal. Send command “QBV” in the Command to query the battery voltage.

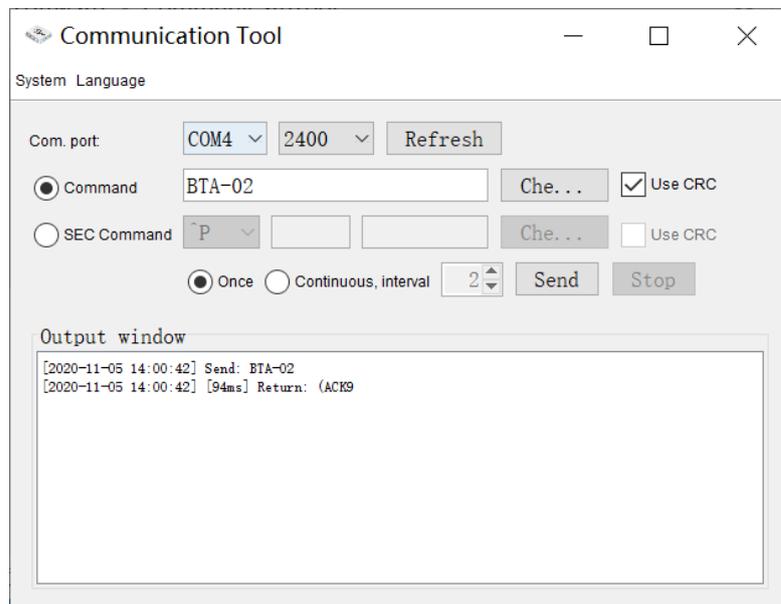


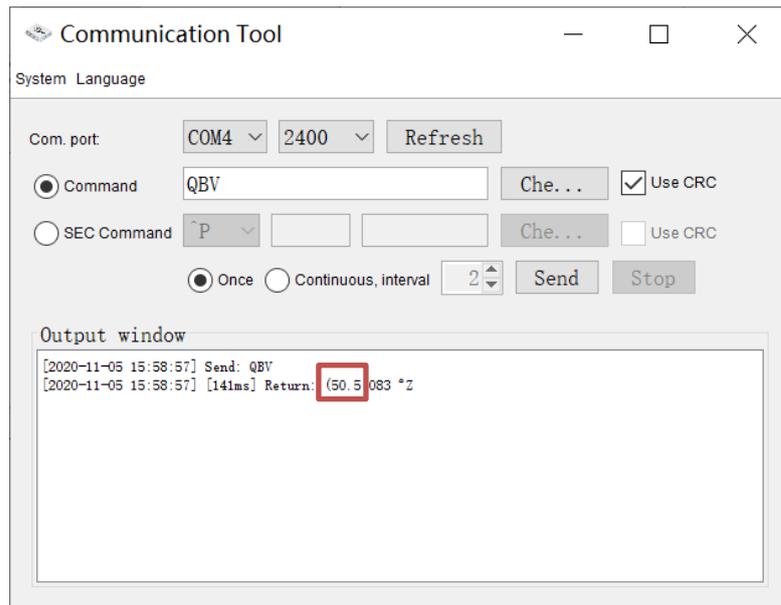
3. If the voltage obtained through the command query is less than the multimeter measurement voltage, Send commands “BTA+nn” in the Command column (nn Scope of 00 ~ 20, Input nn based on the voltage difference), Concurrent execution Use CRC and Once, Return “(ACK9” command sends success, then send the command “QBV” to query the battery voltage, Repeat these two commands, Until query voltage is equal to the measured value, Stop sending commands, as shown in the figure



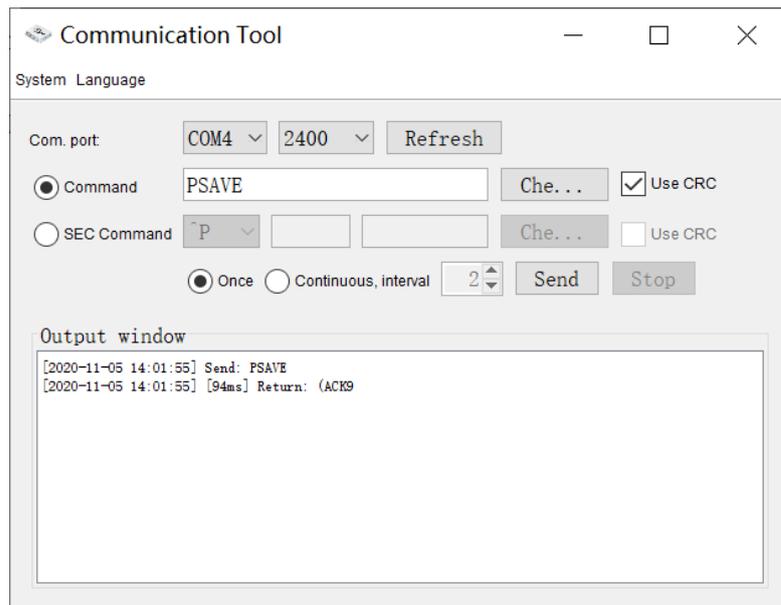


If the voltage obtained through the command query is more than the multimeter measurement voltage, Send commands “BTA-*nn*” in the Command column (*nn* Scope of 00 ~ 20, Input *nn* based on the voltage difference), Concurrent execution Use CRC and Once, Return “(ACK9 ”command sends success, then send the command “QBV” to query the battery voltage, Repeat these two commands, Until query voltage is equal to the measured value, Stop sending commands, as shown in the figure





4. Save the battery voltage calibration value, Send Commands PSAVE in the Command column, Concurrent execution Use CRC and Once, Return “(ACK9 ”command sends success, The battery voltage calibration value is saved successfully, as shown in the figure



5. Send command “ATE0” to exit the test mode, Return “Communication time out” command sends success., as shown in the figure

