

Testing Equipment for iPhone battery series

PRODUCT SPECIFICATION

HS-T1000 Battery Test Equipment

HS-T1000 Function:

HS-T1000 carries testing on battery series from iPhone 4 to 12 Pro Max.

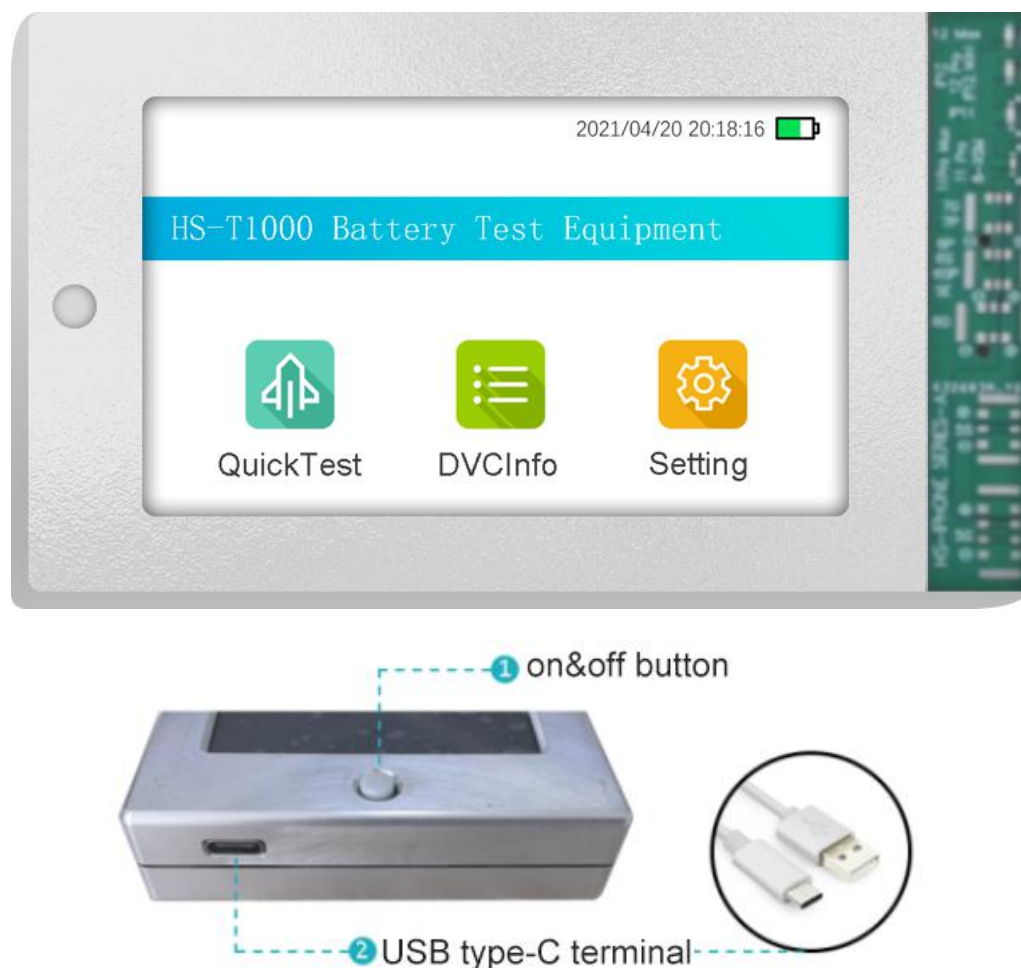
Quick detect battery parameters such as battery health.

HS-T1000 Specification (Universal Version) V1.00

File	HS-T1000 specification	Version	Universal V1.00	Date	2021/4/20
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● Equipment outline:

1-1: Home screen & Terminals:



1-2: Product application:

HS-T1000 is applicable for iPhone batteries R&D personnel, sales, repair crews, repair shop, small and medium sized factories in iPhone batteries industry.

1-3: Function outline: series of iPhone batteries from 4 to 12 Pro Max

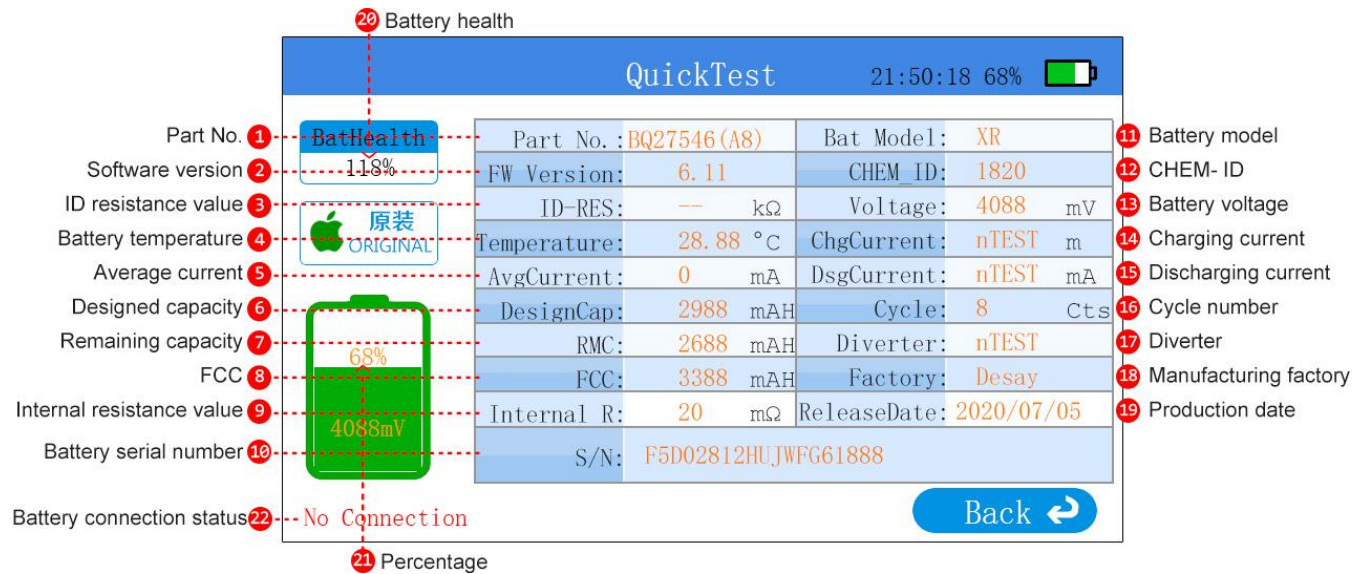
● Quick Test :

2-1: Quick test operation:

Quickly detect battery performance and parameters;

1. Enter into main screen after starting up;
2. Entrance: Main screen=>Quick Test;
3. Connect battery via wiring board per model, battery parameter and performance will be displayed.

4. Defaulted to not test charging & discharging current(turn on charging & discharging testing function in setting if needed)



2-2: Quick Test Parameter List:

Item	Parameter	Description	Item	Parameter	Description
1	Part No.	DSP model	11	Bat Model	Battery model identifier
2	FW Version	Firmware version	12	CHEM_ID	Battery system chem identifier
3	ID Resistance	Control resistance of charging & discharging current(4G/4S)	13	Voltage	Battery rated voltage
4	Temperature	Battery temperature	14	ChgCurrent	Current during charging(set in system settings)
5	AvgCurrent	Battery output average current	15	DsgCurrent	Current during discharging(set in system settings)
6	DesignCap	Factory set rated capacity	16	Cycle	Time of one full charging and discharging cycle
7	RMC	Battery remaining capacity	17	Diverter	Battery diverter identifier(X,XS-Max)
8	FCC	Full charge capacity	18	Factory	Battery manufacturing factory
9	Internal R	Internal resistance value	19	Release Date	Battery production date
10	S/N	Battery serial number	20	Bat Health	Ratio of FCC to design capacity
21	Percentage	Ratio of RMC to FCC	22	Battery connection status	

● DVCInfo:

Equipment info display

Item	Property	Content	Item	Property	Content
1	Equipment model	HS-T1000	5	Voltage	4054mV (voltage of built-in battery)
2	IAP_Version	V2.000	6	LCD-ID	NT35510(LCD screen serial number)
3	FW_Version	V1.100(firmware version)	7	Equipment SN	Equipment unique serial number
4	HD_Version	V1.000(hard ware version)			

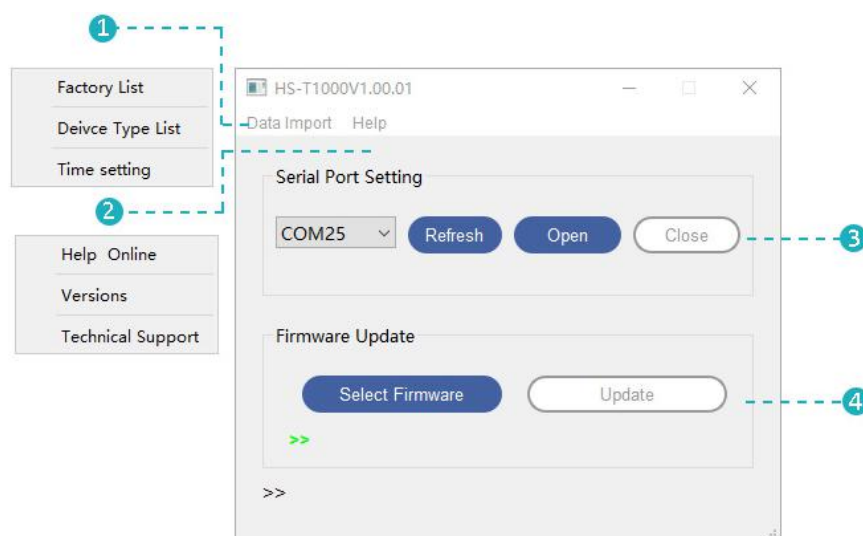
DVCInfo 21:50:18 68%		Setting 21:50:18 68%	
Equipment model	HS-T1000	Brightness	▼ Standart
IAP_Version	V2.00	Auto sleep	▼ 10Minute Sleep
FW_Version	V1.100	Buzzer Settings	▼ Open
HW_Version	V1.000	Time Settings	▼ 18:18:18
Bat voltage	3988mV	Date Settings	▼ 2021/03/28
LCD-ID	NT35510	Chg/Dsg Test	▼ Open
Equipment SN	31FF7A6F1463933311806E2E	Language	▼ 中文
Back		Back	

● Setting:

Setup equipment basic info & user usages

item	property	use instruction
1	Brightness	Standard/low-light/high-light options
2	Auto Sleep	10/20/30Minute Sleep / No Sleep option
3	Buzzer Setting	Open / Close option
4	Time Setting	Set system time
5	Date Setting	Set system date
6	Chg / Dsg Test	(charging/discharging current testing) turn on/off option turn off: skip testing on charging current and discharging current, shows "nTEST" turn on: quick test on charging current and discharging current(require around 4 sec)
7	Language	Freely switch between Chinese and English option,

● Host computer introduction:



- ① **Data import menu:** factorylist loading, dtypelist loading;
- ② **Help menu:** online help document checking, equipemnt version info query, technical support
- ③ **Serial port Setting:** connect COM port with computer via USB Type-C cable
- ④ **Firmware Update:** can update firmware

match host computer software function:

- 1、update factorylist, dtypelist(to detect OEM factory and battery P/N when testing)
- 2、Firmware upgrade

Data import function:

- ①database file saved at paralist folder under the directory of host computer;
- ②dtypelist: dtypelist.txt, factorylist: factorylist.txt;
- ③download latest dtypelist, factorylist from official website and replace that in paralist folder.
- ④Time setting: loading time and date form host computer

Firmware upgrade manual:

- ①click "[Refresh](#)" button at serial sport setting area, choose access port and turn on
- ②click"[Select Firmware](#)" button at the firmware update area, select target firmware in the file select dialog box
- ③"Update" button will light up after file been selected, click it and start update, shows update process below
- ④equipment restart when prompting that update completed.

Remark: need to restart and enter boot, then connect serial port automatically during upgrade process, if fail to connect, manually connect it and continue to update.

● Equipment spec:

size:	L1340mm*W790mm*H15mm
weight:	280g
screen size:	4.3in 104.5mm*61.5mm resolution: 800*480
battery capacity:	1000mAh(with stand-by time of around 8 hours)

● Package list:

- | | |
|-----------------------|---------------------------|
| 1、HS-T1000 *1; | 2、Battery wiring board*1; |
| 3、USB Type-C cable*1; | 4、HS-T1000 user manual*1. |