Fnirsi
Technology

Intelligent. Powerful. SimpleMINI

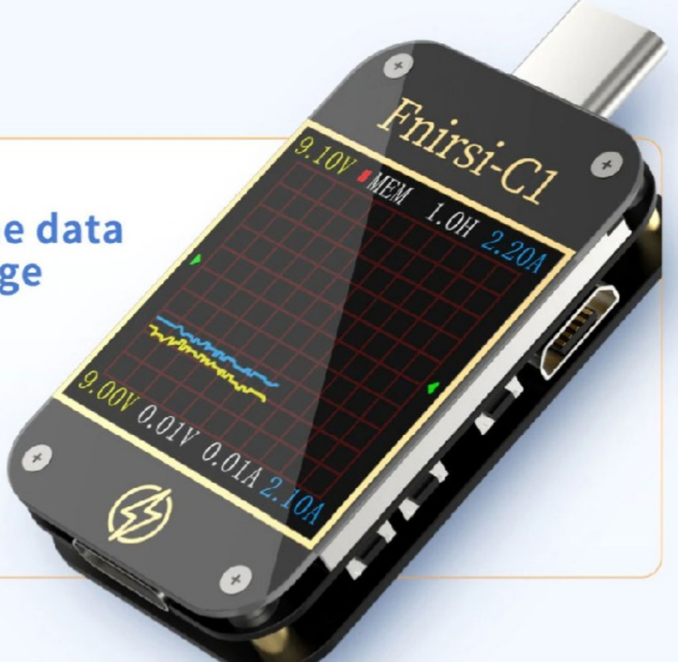
Body size is smaller than 2 fingers,
Easy to carry around.

Fnirsi-C1
D00 00:04:15
37.3℃
5.1180 V
1.8474 A
9.4554 W
0.0000 V
0.0000 A
0.0000 W
01
10
000:35:55
1.11992 Ah
7.36478 Wh
5.1243 V
2.1138 A
10.829 W
5.1020 V
1.5386 A
7.8671 W

Fnirsi-C1
PD3.0 105.00W
D+ 2.719V
D− 2.705V
20.104V
0.0163A
0.3295W
5.00V 3.00A
9.00V 3.00A
12.00V 3.00A
15.00V 3.00A
20.00V 5.00A
3.3-21.0V 5.0A
Gear
20
100
1000
Target
20.00V

2

QC/PD Detection & Trigger


Fnirsi-C1
9.10V
MEM
1.0H
2.20A
9.00V
0.01V
0.01A
2.10A

3

Offline data storage

Fnirsi
Technology

Powerful PC software
Driver-free installation

Data management * Protocol control * Firmware upgrade
Support monitoring and recording of voltage and current curves;
Protocol single trigger and smart trigger functions

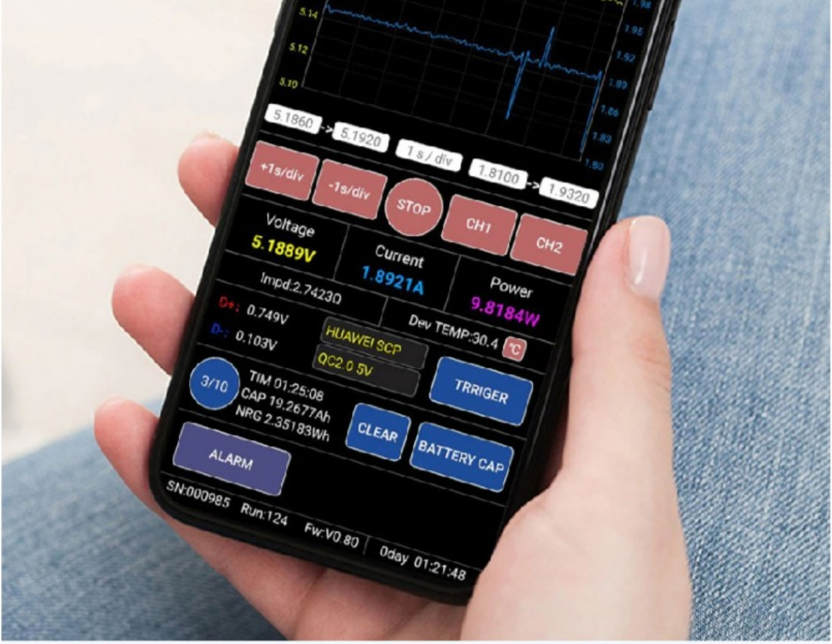
Fnirsi
Technology

Bluetooth APP Control

By linking the Bluetooth APP,Can view voltage, current and curve in real time, and can be controlled by agreement,View 10 sets of capacity statistics and capacity calculations,At the same time, the overvoltage current alarm can be set in the APP.

NOTE：Currently only supports Android phones；Normal version without Bluetooth function.

FNIRSI-C1
9:55
VA
D+D-
STOP
5.20
5.18
5.16


5.14
5.12
5.10
1.98
1.95
1.92
1.89
1.86
1.83
1.80
5.1860
5.1920
1 s / div
1.8100
1.9320
+1s/div
-1s/div
STOP
CH1
CH2
Voltage
5.1889V
Current
1.8921A
Power
9.8184W
Impd:2.74230
D+: 0.749V
D-: 0.103V
HUAWEI SCP
QC2.0 5V
Dev TEMP:30.4 ℃
3/10
TIM 01:25:08
CAP 19.2677Ah
NRG 2.35183Wh
TRRIGER
CLEAR
BATTERY CAP
ALARM
SN:000985 Run:124 Fw:V0.80
0day 01:21:48

Fnirsi
Technology

Comprehensive functions, Meet all your needs

All mainstream protocol detection triggers,Wave curve,
Internal resistance measurement of charging cable,
Low internal resistance,Free drive PC software, etc.

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Fnirsi-C1

1.3-inch high-definition TFT color screen

Double Type-C (1 male & 1 female)

Two-way charging

Gravity sensor 360 degree screen rotation

On-board temperature monitoring

Four major mode curve detection

V/A/W 6-bit high-precision detection

6.5A high current

Apple 2.4A acceleration

Rich fast charge protocol triggers

PD E-Marker/DASH cable inspection

Cable internal resistance detection

10 sets of output

Bluetooth APP

PC software

capacity & energy
detection statistics

Fnirsi
Technology

Technical Parameters

Accuracy: ± (a% (%) Reading + Number of words

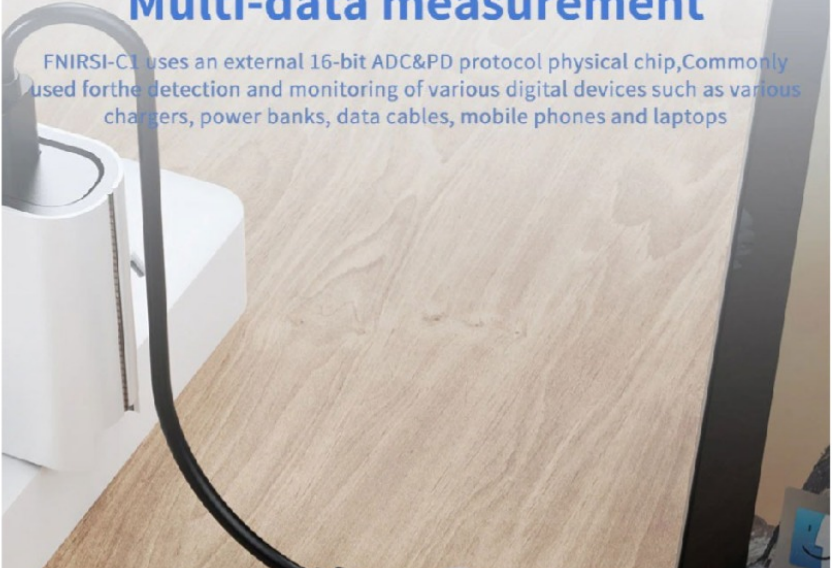
Index	Range	Resolution	Precisio
Monitor voltage	4～24V	0.00001V	±(0.2‰+2)
Monitor current	0～6.5A	0.00001A	±(0.5‰+2)
Monitor power	0～130W	0.00001W	±(0.5‰+2)
Load equivalent internal resistance	0～9999.9Ω	0.0001W	±(0.5‰+2)
D+/D- voltage	0～3.3V	0.001V	±(1.0%+2)
Equipment temperature	℃	1℃	±(1.2%+3)
	℉	1℉	±(1.2%+4)
Capacity	0～9999.99Ah	0.00001Ah	
Energy used	0～9999.99Wh	0.00001Wh	

Internal resistance of the cable	0~9999.9Ω	0.0001Ω	
Equipment running time	99days23hours 59minute59second	1second	
Record time	999hours 59minute59second	1second	

Fnirsi Technology

Real-time monitoring of charging voltage, current and power. Multi-interface display, Multi-data measurement

FNIRSI-C1 uses an external 16-bit ADC&PD protocol physical chip,Commonly used forthe detection and monitoring of various digital devices such as various chargers, power banks, data cables, mobile phones and laptops



20.182V
4.0000A
80.728W
Protocol
Fnirsi-C1
esc
tab
caps lock
Q

Fnirsi-C1

Charger

Data cable

Power Bank

Fast charge mobile phone

Various laptop computers

USB-C
USB-A
USB-A
Type-C

Type-C digital equipment

Automatic Detection/Triggering of multiplefast charging protocols

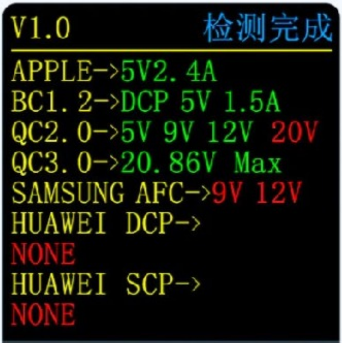
Protocol trigger: QC2.0, QC3.0, Huawei FCP, Huawei SCP, Samsung AFC, PD protocol

Protocol detection: APPLE2.4A, PD2.0, PD3.0, QC2.0, QC3.0,Huawei FCP, Huawei SCP, Samsung AFCMTK-PE and other fast charging protocols

Fnirsi-C1
Trigger and Detect
1 Detction
2 Qualcomm QC 2.0
3 Qualcomm QC 3.0
4 Huawei FCP
5 Huawei SCP
6 SAMSUNG AFC

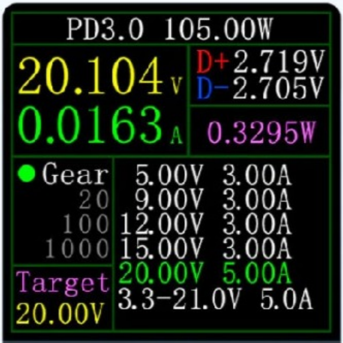
Protocol detection in progress **Support the agreement** **Does not support the protocol**

In the "Quick Charge Trigger Interface", long press the "<< key" to enter the trigger menu,Press "OK" to enter "Quick Charge Detection Trigger Menu"After entering, you can see the automatic detection of various fast charging protocols.Do not connect any load during automatic detection,To prevent damage,After the detection is completed, "Detection Complete" will be displayed in the upper right corner.



V1.0 检测完成
APPLE->5V2.4A
BC1.2->DCP 5V 1.5A
QC2.0->5V 9V 12V 20V
QC3.0->20.86V Max
SAMSUNG AFC->9V 12V
HUAWEI DCP->
NONE
HUAWEI SCP->
NONE

Fast charge detection display diagram



PD3.0 105.00W
20.104 V
0.0163 A
D+ 2.719V
D- 2.705V
0.3295W
● Gear 20 100 1000
5.00V 3.00A
9.00V 3.00A
12.00V 3.00A
15.00V 3.00A
20.00V 5.00A
3.3-21.0V 5.0A
Target 20.00V

Fast charge protocol Detection/ Trigger display diagram

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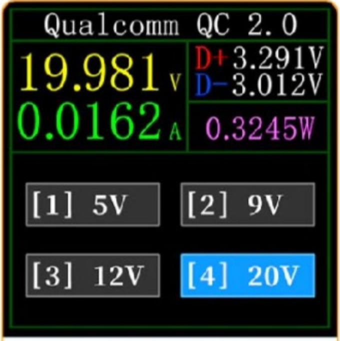
Mainstream protocol trigger function Interface

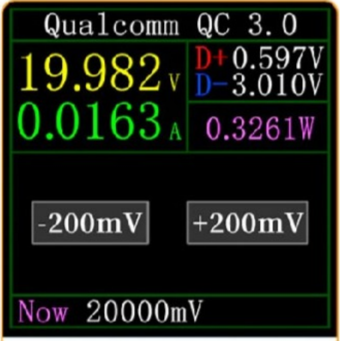
Meet your different needs


Qualcomm QC 2.0

19.981 V
0.0162 A
D+ 3.291V
D− 3.012V
0.3245W

[1] 5V
[2] 9V
[3] 12V
[4] 20V

Qualcomm QC2.0
trigger interface

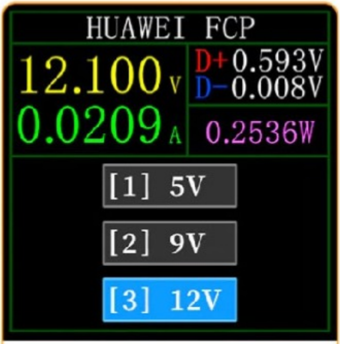

Qualcomm QC 3.0

19.982 V
0.0163 A
D+ 0.597V
D− 3.010V
0.3261W

-200mV
+200mV

Now 20000mV

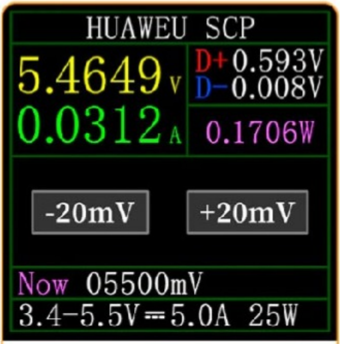
Qualcomm QC3.0
trigger interface


HUAWEI FCP

12.100 V
0.0209 A
D+ 0.593V
D− 0.008V
0.2536W

[1] 5V
[2] 9V
[3] 12V

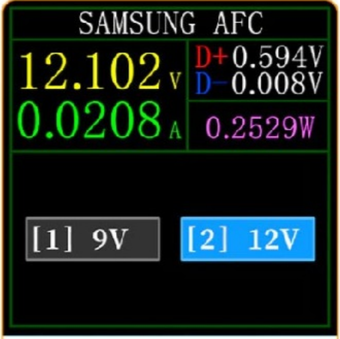
Huawei FCP
trigger interface


HUAWEU SCP

5.4649 V
0.0312 A
D+ 0.593V
D− 0.008V
0.1706W

Now 05500mV
3.4-5.5V⎓5.0A 25W

Huawei SCP
trigger interface



SAMSUNG AFC

12.102 V

0.0208 A

D+0.594V

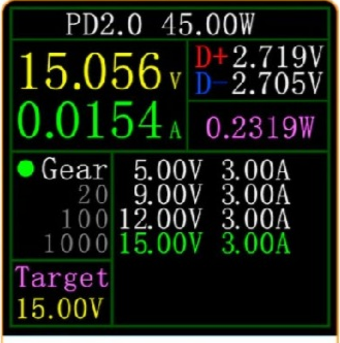
D-0.008V

0.2529W

[1] 9V

[2] 12V

Samsung AFC trigger interface



PD2.0 45.00W

15.056 V

0.0154 A

D+2.719V

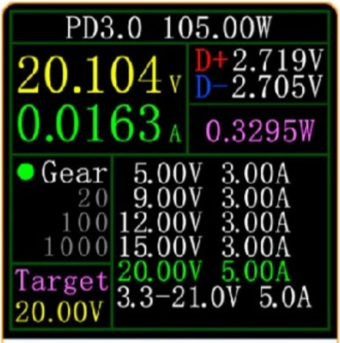
D-2.705V

0.2319W

● Gear 5.00V 3.00A
20 9.00V 3.00A
100 12.00V 3.00A
1000 15.00V 3.00A

Target
15.00V

PD2.0 trigger interface



PD3.0 105.00W

20.104 V

0.0163 A

D+2.719V

D-2.705V

0.3295W

● Gear 5.00V 3.00A
20 9.00V 3.00A
100 12.00V 3.00A
1000 15.00V 3.00A
20.00V 5.00A
3.3-21.0V 5.0A

Target
20.00V

PD3.0 trigger interface