

THE FAST CHARGING ERA ARRIVED,
INFERIOR CHARGING CABLES
CHARGER ARE **SUBSTANTIAL.**
FRAUD? NO!!!

**FNB48P will work with you to expose the
ugly face of unscrupulous merchants.**



Multi-port compatible: USB, TYPE-C, MICRO interface
6-digit display with high precision
Various fast charging protocols

6.5A HIGH CURRENT



CNC METAL INTEGRAL MOLDING ARMED TO THE TEETH

Everyone is a Anti-Hero!
All it takes is a Good Weapon!

**CNC
METAL SHELL**



**1.77-inch
High-definition
display screen,
the data is at a
glance.**

240MHZ ARM MF SMART BRAIN

Based on the powerful CPU,
48P has multi-task processing capability

240MHZ



ARM CPU

M4F CORE



ETM Data Tracking

MPU+FPU+DSP



Hardware Acceleration

**MCU MAIN
CONTROL CHIP**

**PD PHYSICAL
PROTOCOL CHIP**

**ADC DIGITAL
CONVERSION CHIP**

MAINSTREAM FAST CHARGING PROTOCOL DETECTION AND DECEPTION DOUBLE BLESSING INFERIOR CHARGER CAN'T HIDE

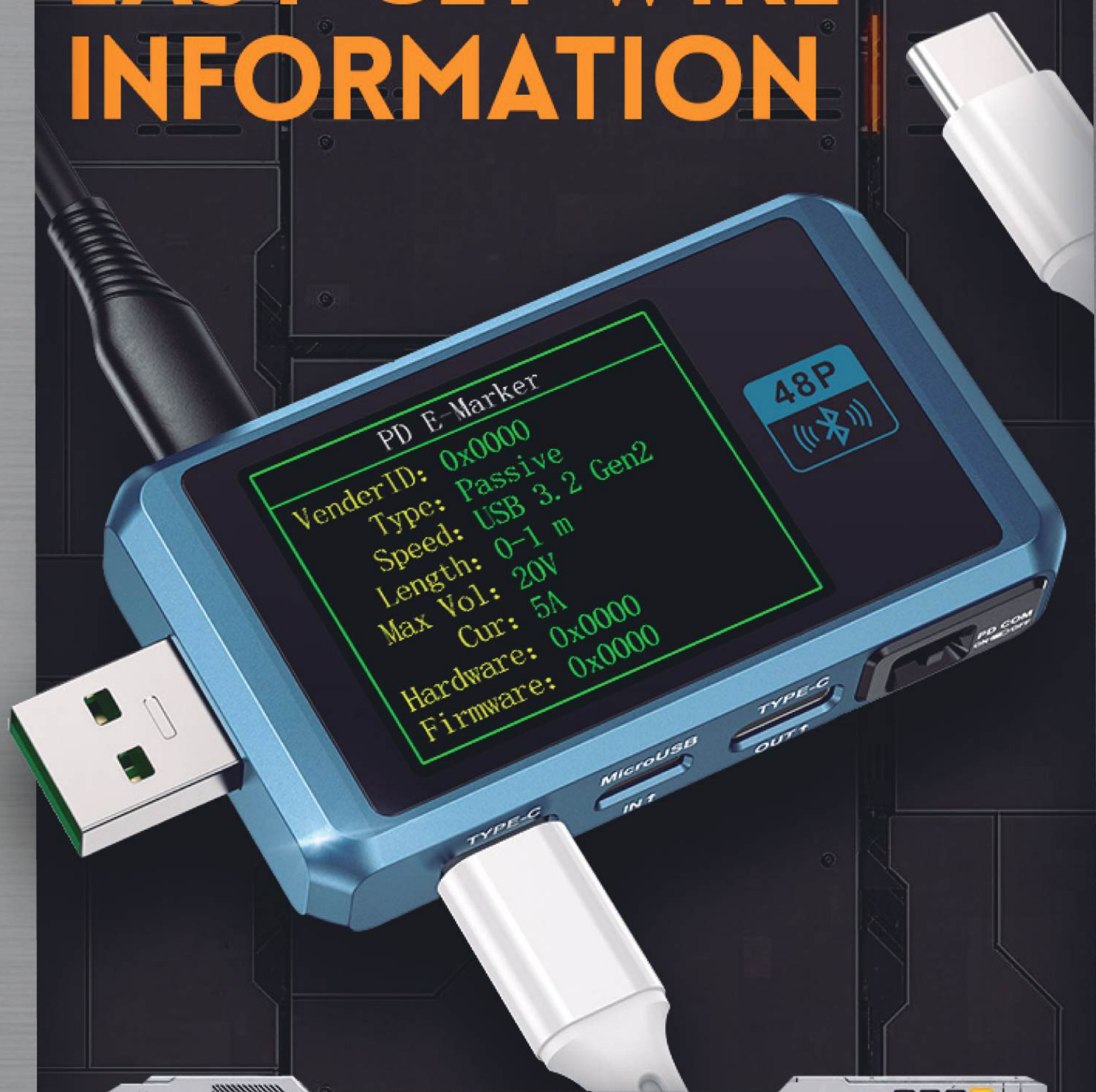
PROTOCOL DETECTION:

APPLE 2.4A, QC2.0, QC3.0, PD, Samsung AFC, Huawei FCP, Huawei SCP, OPPO VOOC, DASH, WARP, SuperVOOC, PE+1.1, PE+2.0



WIRE DETECTION

EASY GET WIRE INFORMATION



PD E-MARKER

Easily read the CC line data information of the E-Marker chip.

PD E-Marker

VenderID: 0x0000
Type: Passive
Speed: USB 3.2 Gen2
Length: 0-1 m
Max Vol: 20V
Cur: 5A
Hardware: 0x0000
Firmware: 0x0000

DASH CABLE DETECTION

Able to read DASH
cable chip information

Read DASH Cable Data

ROM 7Bytes + CRC 1Byte:

09 52 00 bb 11 19 04 57

ADDR 0x20-0x27:

57 04 19 11 bb 00 52 09

Dash cable found!

Verified!

CABLE INTERNAL RESISTANCE MEASUREMENT

two-step quick
measurement of wire
resistance with
constant current load.

Cable Measurement

Ref : 5.0121 V 0.9789 A

REAL: 4.9436 V 0.9789 A

Diff: 0.0685 V

Cable Resistance:

0.0700 Ω

10 GROUPS OF DATA INTELLIGENT RECORDS

Built-in the calculation formula of battery capacity, to conveniently and fastly calculate the charging efficiency and capacity of the target object.

**Battery Capacity
Easy Calculation**

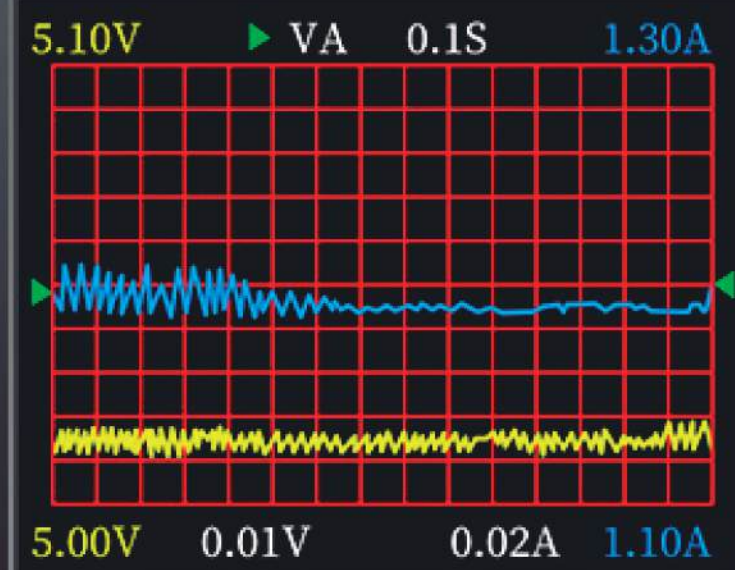


FOUR CURVES TO MEET VARIOUS NEEDS



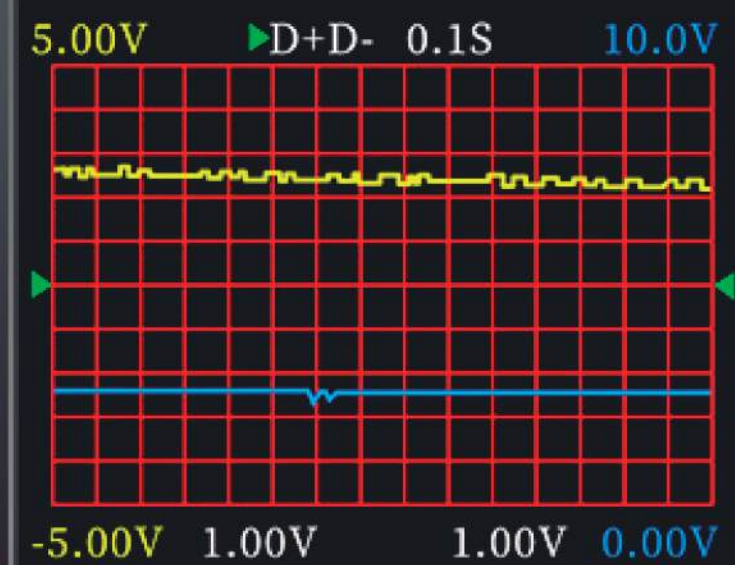
MODE 1

VOLTAGE
CURRENT
CURVE



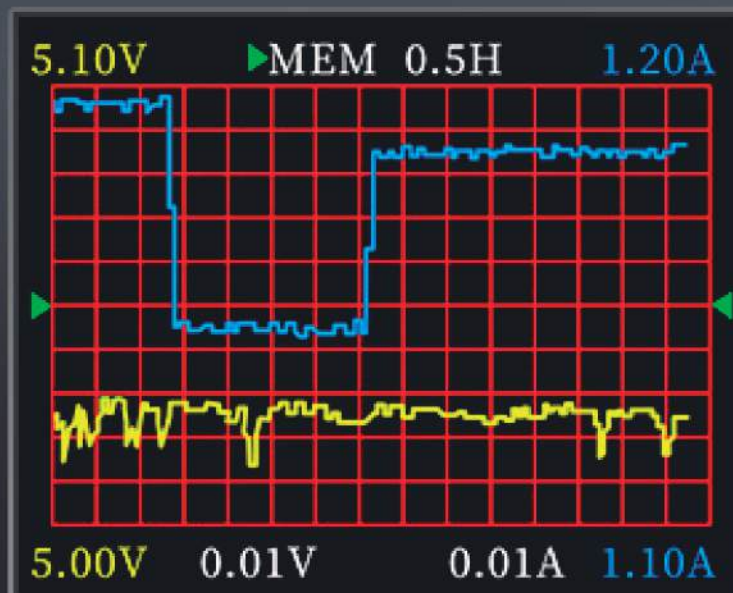
MODE 2

D D-
VOLTAGE
CURVE



MODE 3

OFFLINE RECORD CURVE



MODE 4

POWER RIPPLE CURVE

(AC coupling)



Equipped with a gravity sensor, which supports 180° and 360° automatic flipping
(Only the simple interface supports 360°)



HIGH-PRECISION 6-DIGIT DISPLAY

The maximum resolution is 0.00001, which could real-time monitor the subtle changes in voltage, current and power during charging.



① PC interface

② Function keys

③ Return key

④ TYPE-C IN

⑤ MicroUSB IN

⑥ TYPE-C OUT

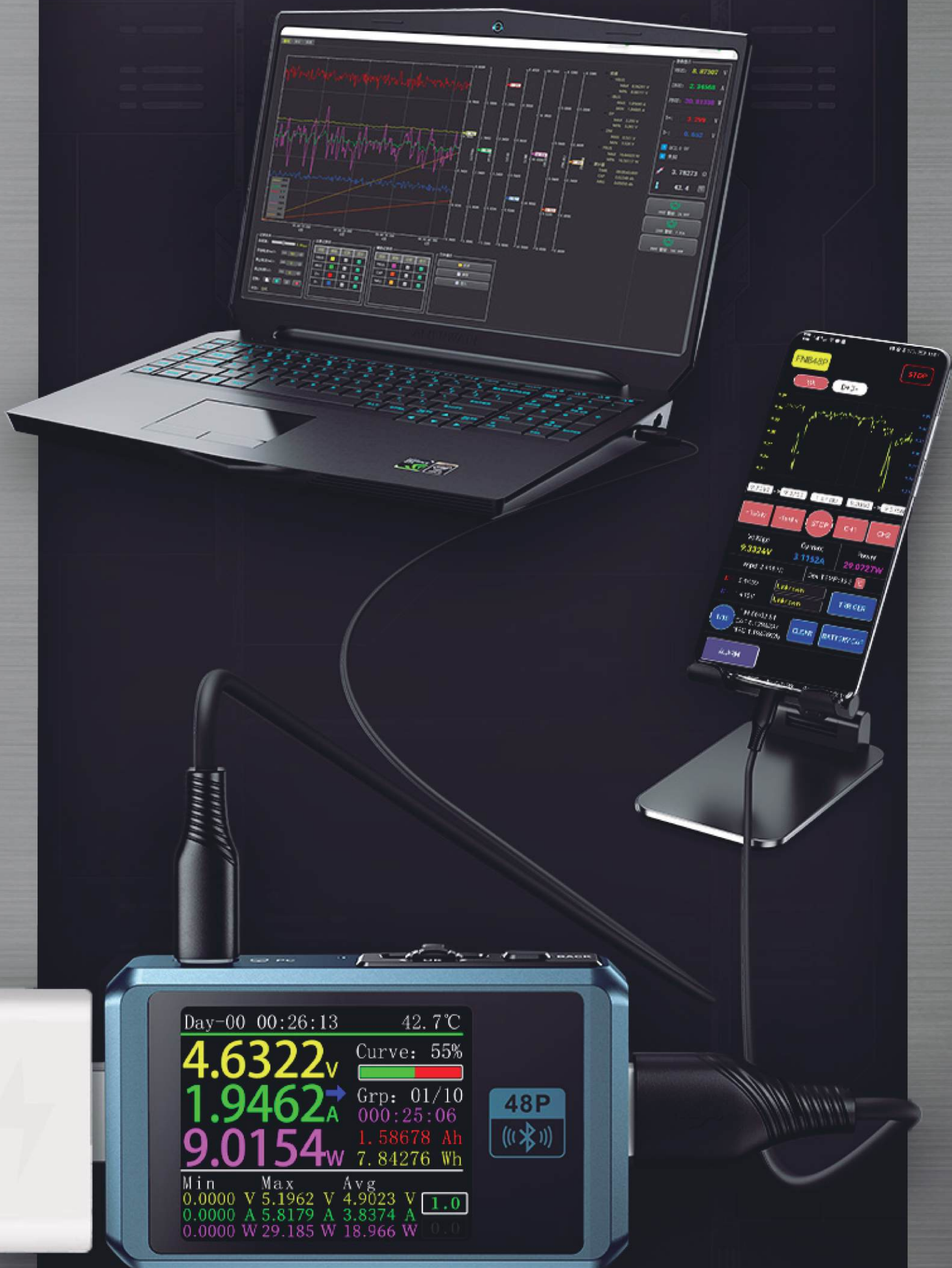
⑦ PD COM

⑧ USB-A IN

⑨ USB-A OUT

PC HOST COMPUTER BLUETOOTH APP

Driver-free installation, data management, bluetooth APP can be viewed synchronously, and overvoltage and overcurrent alarms can be set.



NOTE: THE APP NEEDS TO ORDER THE VERSION WITH BLUETOOTH, AND DOES NOT SUPPORT THE IOS SYSTEM.

PROTOCOL TRIGGER INTRODUCTION

Qualcomm QC 2.0

8.9704v	D+ 3.290V
0.0000A	D- 0.545V
	0.0000 W

[1] 5V

[2] 9V

[3] 12V

[4] 20V

QC2.0 Trigger

Qualcomm QC 3.0

6.7906v	D+ 0.594V
0.0000A	D- 3.021V
	0.0000 W

-200mV

+200mV

Now 06800mV

QC3.0 Trigger

HUAWEI FCP

8.9549v	D+ 0.596V
0.0001A	D- 0.004V
	0.0012 W

[1] 5V

[2] 9V

HUAWEI FCP Trigger

HUAWEI SCP

5.0811v	D+ 0.594V
0.0001A	D- 0.004V
	0.0000 W

-25mV

+25mV

Now 05000mV

3.4-5.5V $\rightleftharpoons$ 5.0A 18W

HUAWEI SCP Trigger

SAMSUNG AFC

8.9550v	D+ 0.594V
0.0000A	D- 0.004V
	0.0000 W

[1] 9V

[2] 12V

SAMSUNG AFC Trigger

PD3.0 65.00W

9.8539v	D+ 2.677V
0.0000A	D- 2.677V
	0.0000 W

Gear	1	5.00V	3.00A
20	2	9.00V	3.00A
100	3	12.00V	3.00A
● 1000	4	15.00V	3.00A
(mV)	5	20.00V	3.25A
Target	6	3.30-21.00V	3.25A
10.00V			

PD Tirgger

PD Convert

5.0172v	D+ 0.594V
0.0000A	D- 0.001V
	0.0000 W

1	5V	2.00A
2	9V	1.11A
3	12V	0.83A
4	20V	0.50A

PD2.0 10W

Find

QC2.0 to
PD Protocol

SVOOC 2.0 10V 6.5A

10.048v	D+ 3.287V
0.0000A	D- 1.917V
	0.0000 W

Click BACK to return

SVOOC Tirgger

VOOC/WARP 5V

4.9624v	D+ 2.694V
0.0000A	D- 2.694V
	0.0000 W

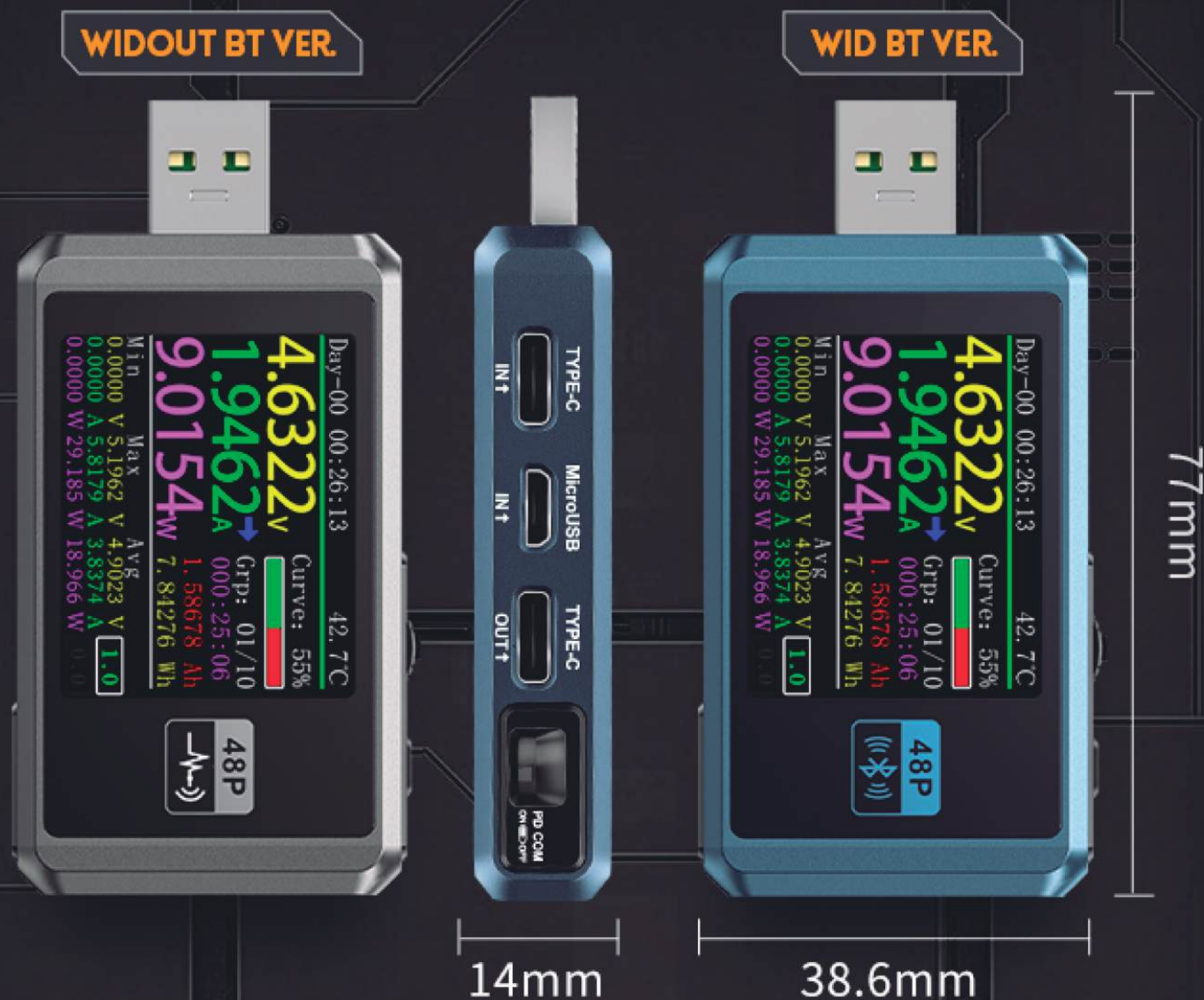
-10mV

+10mV

Now 05000mV

VOOC/WARP
Constant voltage Trigger

PARAMETERS



Note: There are two colors of FNB48P. The Black one is the version without Bluetooth, and the blue one is the version with Bluetooth.

INDEX	RABGE	RESOLUTIO	ACCURACY
Monitor voltage	4~24V	0.00001V	±(0.2%+2)
Monitor current	0~6.5A	0.00001A	±(0.5%+2)
Monitor power	0~156W	0.00001W	±(0.5%+2)
Load equivalent internal resistance	0~9999.9Ω	0.0001Ω	±(0.5%+2)
D+/D- voltage	0~3.3V	0.001V	±(1.0%+2)
Equipment temperature	°C	1°C	±(1.2%+3)
	°F	1°F	±(1.2%+4)
Capacity	0~9999.99Ah	0.00001Ah	
Energy used	0~9999.99Wh	0.00001Wh	
Cable resistance	0~9999.9Ω	0.0001Ω	
Operation hours	99d23h59m59s	1s	
Record time	999h59m59s	1s	