

2013  
|  
2026  
**10<sup>th</sup> edition**

**FNIRSI**



# 2026 Products Catalog

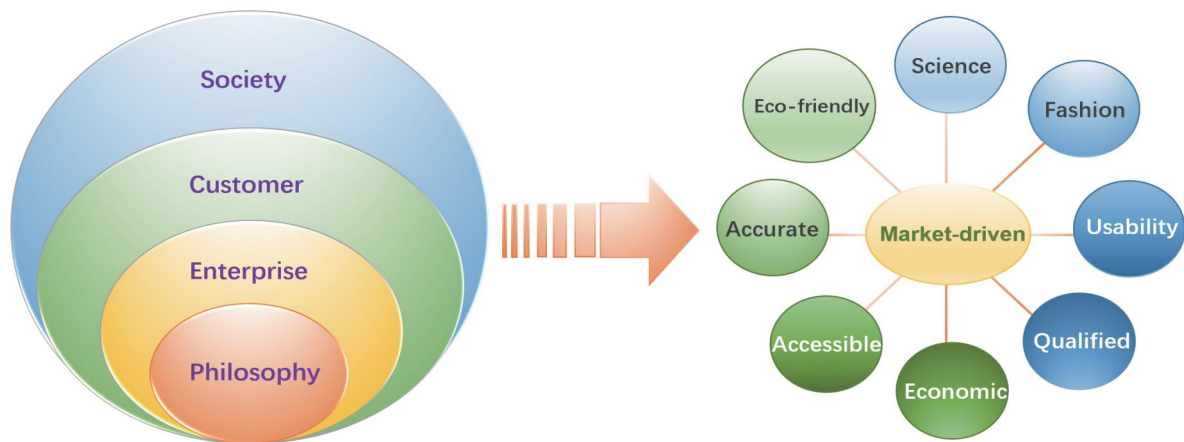
Shenzhen FNIRSI Technology Co., Ltd.

## What makes us work hard?

FNIRSI upholds the spirit of "Science, Create and Dream "

We aim to create a diverse range of products to serve humanity across various sectors, including electronics and electrical industries, educational initiatives, household tools, factory manufacturing, and environmental protection. Our mission is to design superior products and solutions through exceptional craftsmanship and innovative technology, with a focus on design aesthetics and practical applications, ultimately creating outstanding customer experience. We believe that every talented employee deserves respect and recognition for their dedication and creativity. FNIRSI is committed to providing young people with opportunities to realize their dreams alongside us.

For social responsibility, FNIRSI will enhance testing efficiency and accuracy, support electronics and electrical engineering education, and promote harmony with the environment. We commit to environmental protection, employee welfare, customer satisfaction, and fair competition.



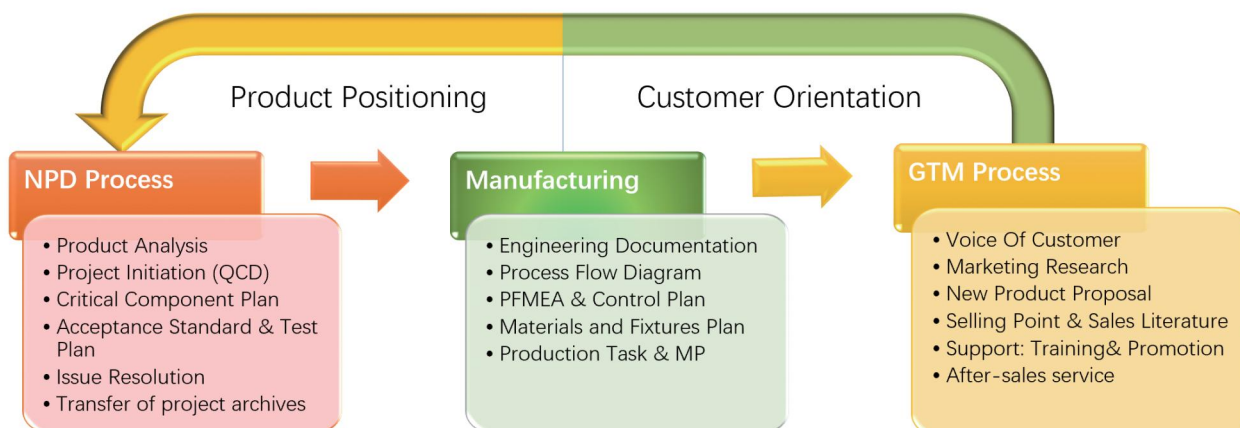
## What drives our rapid growth?

### Product Positioning

- Targeted Innovation: Develop products specifically for electronics enthusiasts, students, professionals, and home repair electricians to ensure market relevance.
- Quality Assurance: Ensure products are reliable, and technologically advanced to attract discerning customers.
- Design Excellence: Focus on functional and user-friendly design to make products stand out in the market.

### Customer Orientation

- Voice Of Customer: Collect and analyze customer feedback to adjust products and services
- Exceptional Support: Provide fast and effective customer service to increase satisfaction.





## FUTURE NAVIGATION OF INTELLIGENT RESEARCH, SERVICE & INSTRUMENTS

### ABOUT US

**FNIRSI** is a rising star company in the test instrumentation industry. We focus on innovation and technological development, dedicated to creating modern, high-performance, and affordable integrated solutions for user. Our technology-infused design, coupled with user-friendly UI, provide user a refreshing experience. Consistently adhering to the philosophy design of simple, convenient, professional, efficient, and youthful, FNIRSI garnered significant user favor in these years.

FNIRSI prioritizes customer experience and our creation, so far R&D team comprises over 80 members. The product lines are encompassing in electronics, environmental testing, home decoration measuring, automotive maintenance, and outdoor tools. FNIRSI is a company integrates R&D, manufacturing and sales. With years of effort, FNIRSI provides comprehensive solutions such as online-retail, global distribution and ODM/OEM customized services etc..



# FNIRSI

**80+**

R&D personnel

**7,000m<sup>2</sup>+**

Factory production line

**50+**

Shipped countries

## THE ROAD OF 12 YEARS



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Released in Mar.,2026

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- 05 ● **1013D** Tablet Oscilloscope
- 06 ● **DPOS350P** 4-in-1 Multi-Function Tablet Oscilloscope **NEW**
- 08 ● **2D15P** 3-in-1 2CH 100 MHz Phosphor ScopeMeter **NEW**
- 10 ● **2C53P** Tablet 3 In 1 Oscilloscope
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- 14 ● **2C53T** Handheld 3 In 1 Oscilloscope
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- 26 ● **DST-201&DST-210** 3-IN-1 Multifunction Multimeter Oscilloscope **NEW**
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## ENVIRONMENTAL DETECTOR

72 ● **SFD-02** Formaldehyde Detector **NEW**

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78 ● **FAM-02** Digital Anemometer **NEW**

79 ● **FPM-02** Color Screen Lux Meter **NEW**

80 ● **WMT-10** Inductive Wood Moisture Meter

81 ● **WHD-02** Color Screen Pin-Type Wood Moisture Meter **NEW**



**Oscilloscope**

Type	Model	Band Width	Sampling Rate	Generator MAX Frequency	Other Function
Bench-top	※1014D	100MHz	1GSa/s	10MHz	/
Tablet	※1013D	100MHz	1GSa/s	/	/
	※DPOS350P	350MHz	1GSa/s	50MHz	Spectrum Analyzer + Freq. Response Analyze
	※2D15P	100 MHz	500 MSa/s	10 MHz	Multimeter bit 4½
	※2C53P	50MHz	250MSa/s	10MHz	Multimeter bit 4½
Phosphor Handheld	※DPOX180H	180MHz	500MSa/s	20MHz	/
Handheld	※2C53T	50MHz	250MSa/s	50kHz	Multimeter bit 4½
	※2C23T	10MHz	50MSa/s	2MHz	Multimeter bit 4
	※1C15	110MHz	500MSa/s	/	/
	※5012H	100MHz	500MSa/s	/	/
MINI pocket	※DS215H	50MHz	250MSa/s	50kHz	/
	※DSO-TC4	10MHz	48MSa/s	50kHz	Component tester
	※DSO-TC3	500KHz	10MSa/s	10kHz	Component tester
	※DSO510	10MHz	48MSa/s	50kHz	/
	※DSO153	1MHz	5MSa/s	10kHz	/
	※DSO152	200KHz	2.5MSa/s	/	/

**Electrical Test Tools**

Type	Model	Band Width	Sampling Rate	Generator MAX Frequency	Other Function
Oscilloscope Multimeter	※DST-210	20000	CAT IV 600V	10MHz 48MSa/s	/
	※DST-201		CAT III 1000V	1MHz 5MSa/s	
Thermal Imager Multimeter	※TDM-120P	20000	CAT III 1000V	/	Thermal Imager
Digital Multimeter	※DMT-99	10000	CAT III 1000V	/	/
	※S1	10000	CAT III 1000V	/	/
Clamp Meter	※DMC-100	10000	CAT III 1000V	/	/
Insulation Resistance Tester	※MRT-2050	2000	CAT III 600V	/	/
	※MRT-1050	2000	CAT III 600V	/	/



**Signal Generator & Process Calibrator**

※ SG-003A	0-24V adjustable Voltage, 0-24mA Current simulator, pulse waves generator : 0~9999Hz, + Process calibrator with battery 3.7V/3000mAh
※ SG-004A	0-24V adjustable Voltage, 0-24mA Current simulator, pulse waves generator : 0~9999Hz, Thermal resistance: Pt100: -200~650°C, CU50: -20~150°C, RES: 0~390Ω, WRE25/26; Thermocouple (mV) : TC-S/B/K/R/J/T/N + Process calibrator with battery 3.7V/3000mAh

**Programmable DC Power Supply**



※ IPS3608	0~36V,0~8A, 288W; Set value precision: 0.01V, 0.001A; readback value precision: Voltage $\leq \pm(0.3\%+3 \text{ bits})$ ; current $\leq \pm(0.15\%+5 \text{ bits})$ ; 8 protections with PD100 Plug
※ DPS150	0~30V,0~5A, 150W; Set value precision: 0.1%±5mV, 0.1%±3mA; readback value precision: input $\leq 0.2\% \pm 5\text{mV}$ ; out put $\leq 0.1\% \pm 10\text{mV}$ ; out current $\leq 0.1\% \pm 5\text{mA}$ , with 8 protections
※ DPS150 PD	0~30V,0~5A, 150W; Set value precision: 0.1%±5mV, 0.1%±3mA; readback value precision: input $\leq 0.2\% \pm 5\text{mV}$ ; out put $\leq 0.1\% \pm 10\text{mV}$ ; out current $\leq 0.1\% \pm 5\text{mA}$ , 8 protections with PD100 Plug

**Cable Tracker**

※ LPM-10 A/B/C

**10 Test Functions**

- Cable Tracing
- Length Testing
- Connector Testing
- Network Cable Speed Test
- Anti-Interference, No Noise
- Port Flashing
- Cable Pairing
- PoE Supply Testing
- NCV Detection
- Flashlight



**USB Tester**

**Flagship Version With Metallic Sheen**

**FNB58 BT**

Monitor: 4~28V,0~7A, 0~140W with resolution 0.00001 (V/A/W); 2.0 inch full-color TFT-LCD screen , support PD2.0/PD3.0/QC2.0/QC3.0, with blue-tooth fuction, metallic sheen

**FN58**

Monitor: 4~28V,0~7A, 0~140W with resolution 0.00001 (V/A/W); 2.0 inch full-color TFT-LCD screen , support PD2.0/PD3.0/QC2.0/QC3.0, metallic sheen

**FNB48P BT**

Monitor: 4~24V,0~6.5A, 0~156W with resolution 0.00001 (V/A/W); CNC Metal Shell,1.77 inch full-color TFT-LCD screen, support PD2.0/PD3.0/QC2.0/QC3.0, with blue-tooth fuction , metallic sheen

**FNB48P**

Monitor: 4~24V,0~6.5A, 0~156W with resolution 0.00001 (V/A/W); CNC Metal Shell,1.77 inch full-color TFT-LCD screen, support PD2.0/PD3.0/QC2.0/QC3.0,, metallic sheen

**Economic Version**

**FNB48S BT**

Monitor: 4~24V,0~6.5A, 0~156W with resolution 0.00001 (V/A/W); 1.77 inch full-color TFT-LCD screen , support PD2.0/PD3.0/QC2.0/QC3.0, with blue-tooth function

**C1 BT**

Monitor: 4~20V,0~6.5A, 0~130W with resolution 0.00001 (V/A/W); 2.0 inch full-color TFT-LCD screen , support PD2.0/PD3.0/QC2.0/QC3.0, with blue-tooth function

**FNB-38**

Monitor: 4~24V,0~5A, 0~120W with resolution 0.0001 (V/A/W); 1.44 inch full-color TFT-LCD screen, support QC4/PD3.0/2.0



**Battery Internal Resistance Testers**

**HRM-10**

Auto/1V/10V/100V ±0.5% , Auto/20mΩ/200mΩ/2Ω/20Ω/200Ω ±0.5%, 5 bit digit Battery Resistance Testers, with 3.7V/1000mAh lithium battery

**Component Tester**

**LCR-P1**

Triode;Diode;Zenor diode;JFET IGBT MIOSTET;Unidirect ional SCR/Bidirect ional SCR;Capacitor;Resistance;Inductor;Battery;Infrared Remote Control Decoding

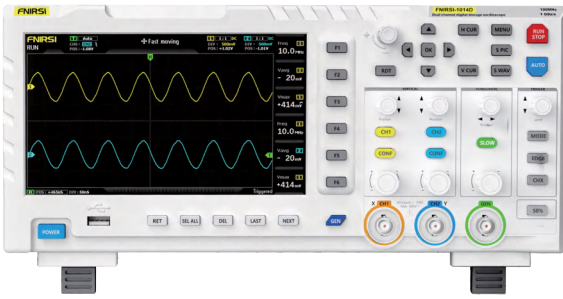
**LCR-ST2**

Capacitor (1 pF~22 mF); Inductor (1 μH~10 H); Resistor (10 mΩ~10 MΩ); Frequency Sweep; Smart Identification; Dual-Mode Display



## INTRODUCTION

The 1014D is a 2 in 1 Bench-top Oscilloscope with 100MHz bandwidth and 1GSa/s sample. It records up to 1000 frames, which can achieve better waveform analysis effects through playback and storage functions. The 1014D built in 10MHz wave Arbitrary Waveform Generator, waveform clipping output at 2.5VPP. The 1014D feature are excellent performance, reliable quality, and a wide range of functions. It's ideal for R&D designer to design and debug electronic circuits, suitable for higher education & laboratory to teach and best choice for electrician to diagnosis for troubleshooting and maintaining.



## 2 CH DIGITAL STORAGE OSCILLOSCOPE

- 2CH, 100MHz bandwidth, 1GSa/s sampling rate, 240kpts memory depth
- Supports X-Y mode, YT/Scroll Mode, FFT reviewing, displaying Lissajous Figures
- Capture waveform as source of Generator to output 1MHz
- Built-in Max 10MHz Waveform Generator, outputs 14 signals
- 7-inch TFT LCD Screen
- Languages: English/Chinese



## TECHNICAL SPECIFICATIONS

Oscilloscope			
<b>Bandwidth</b>	100MHz	<b>Channels</b>	2CH
<b>Sampling Rate</b>	1GSa/s	<b>Rise Time</b>	<3ns
<b>Memory Depth</b>	240kpts	<b>Waveform Capture Rate</b>	5000wfms/s
<b>Vertical Sensitivity</b>	50mV/div-50V/div	<b>Input Impedance</b>	1MΩ
<b>Time Base Scale</b>	10ns/div~50s/div	<b>Trigger Types</b>	Auto/Normal/Single
<b>Auto Measurements</b>	Vpp, Max, Min, RMS(Vrm)s,Avg(Vavg), Peak, Freq, Cycle, Time+, Time-, Duty+, Duty- 12 types		

Waveform Generator			
<b>Max Frequency</b>	10MHz	<b>Channels</b>	1CH
<b>Vertical Resolution</b>	1Hz	<b>Modulations</b>	Capture waveform as a source to output, 1MHz 2.4VPP
<b>Frequency Characteristics</b>	Sin: 10MHz 2.5VPP	Square: 2MHz 2.5VPP	
	Triangle: 2MHz 2.5VPP	Sawtooth: 2MHz 2.5VPP	
	Ladder: 2MHz 2.5VPP	Others: 2MHz 2.5VPP	
<b>Waveforms</b>	sine, square, triangle, sawtooth, anti sawtooth, ladder wave, half wave, full wave, exponential wave, logarithmic wave, log-periodic wave, square root wave, multi-tone signal, sync pulse wave; 14 types		

## GENERAL CHARACTERISTICS

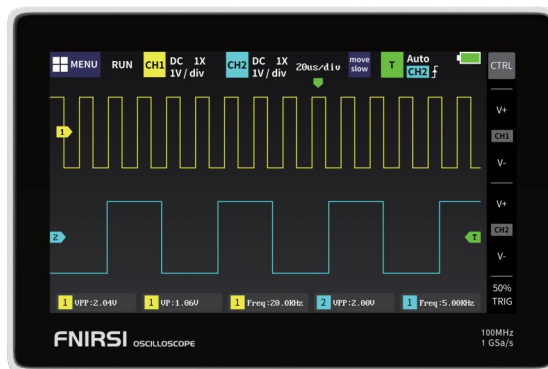
<b>Product Color</b>	White	<b>Standard Carton</b>	65*40*43cm
<b>Product Size</b>	310*145*70mm	<b>Carton Gross Weight</b>	17.1kg
<b>Display</b>	7-inch 800*480 TFT LCD Screen	<b>Quantity Per Carton</b>	10pcs
<b>Product Net Weight</b>	963g	<b>Standard Accessories</b>	Main device*1, P6100 Probe*2, Alligator Clip Probe *1, Charger(5V2A)*1, Power Cable*1, Data Cable*1, Manual*1

**INTRODUCTION**

The 1013D is a 2CH 100MHz tablet oscilloscope. It has 0.01% frequency precision and 7-inch sensitive touchscreen, supports XY mode, FFT analysis and displays Lissajous graphics. It is portable enough to meet different electronics testing scenes and can be continuously used for 4 hours, all these factors make it a high cost performance assistant of R&D engineers and high college students in electronics field.

**FEATURES**

- 2CH, 100MHz bandwidth, 1GSa/s sampling rate, 240kpts memory depth
- Supports X-Y mode, Scroll Mode, FFT reviewing, Lissajous Figures displaying
- Assisted cursor measurement
- 7-inch TFT LCD Touchscreen
- 4 hours battery endurance
- 1KHz self-calibration square waveform
- Languages: Chinese, English



**TECHNICAL SPECIFICATIONS**

Oscilloscope			
<b>Bandwidth</b>	100MHz	<b>Channels</b>	2CH
<b>Sampling Rate</b>	1GSa/s	<b>Rise Time</b>	<3ns
<b>Memory Depth</b>	240kpts	<b>Waveform Capture Rate</b>	50000wfms/s
<b>Vertical Sensitivity</b>	50mV/div-50V/div	<b>Input Impedance</b>	1MΩ
<b>Time Base Scale</b>	10ns/div-50s/div	<b>Trigger Types</b>	Auto/Normal/Single
<b>Auto Measurements</b>	Max, Min,Avg, RMS, Pk-Pk, Peak, Freq, Cycle, Time+, Time-, Duty+, Duty- 12 types		

**GENERAL CHARACTERISTICS**

<b>Product Color</b>	Black & White	<b>Product Net Weight</b>	604g
<b>Product Size</b>	184*124*40mm	<b>Standard Carton</b>	53.5*34*46.5cm
<b>Display</b>	7-inch 800*480 TFT LCD Touchscreen	<b>Carton Gross Weight</b>	20.85kg
<b>Battery</b>	3.7V, 6000mAh, Lithium battery, Standby time 4 hours	<b>Quantity Per Carton</b>	20PCS
<b>Standard Accessories</b>	Main device*1, P6100 Probe*2, Charger(5V2A)*1, Data Cable*1, Manual*1		

# 4-IN-1 MULTI-FUNCTION TABLET OSCILLOSCOPE



350MHz OSC



50M SG



200K-350MHz SA



100Hz-50MHz FRA



## INTRODUCTION

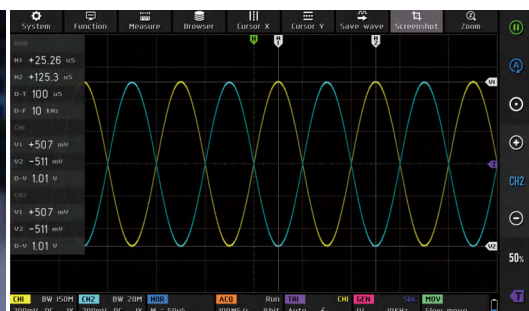
The DPOS350P is a high-performance 4-in-1 tool, combining a 350MHz dual-channel oscilloscope, 50MHz signal generator, 200K~350MHz spectrum analyzer, and 50MHz frequency response analyzer. With a 1GSps real-time sampling rate, 350MHz bandwidth, and high waveform refresh rate, it efficiently captures and displays a wide range of signals, ideal for complex signal analysis and low-probability anomaly detection.

Equipped with a high-resolution display, touchscreen interface, intelligent triggering, and multiple measurement modes, the DPOS350P ensures precise, reliable testing in labs, production lines, and maintenance. Whether for high-frequency signal troubleshooting or routine R&D, it offers exceptional performance to boost productivity.

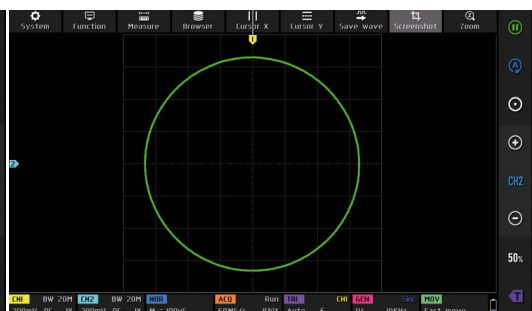


## FEATURES

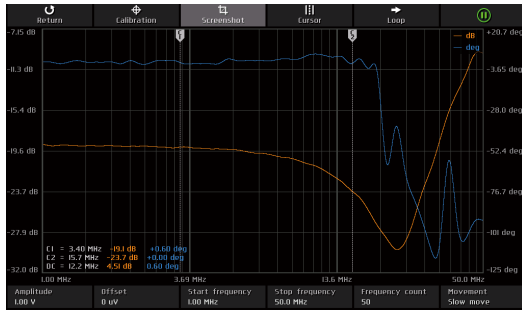
- One-stop integration 4 in 1, Oscilloscope/Signal Generator/Spectrum Analyzer/Frequency Response Analyzer
- Precise capture for low-probability anomaly signals with 350MHz bandwidth, 1GSa/s sampling rate, 50,000wfms refreshing rate
- 50MHz Signal Generator, support 14 types
- Spectrum Analyzer 200K~350MHz
- Frequency Response Analyzer 100Hz ~ 50MHz
- Next-level 8~16-bit technology
- Ultra-responsive 7" IPS Touch Screen
- Languages: Chinese/English/Russian/Portuguese



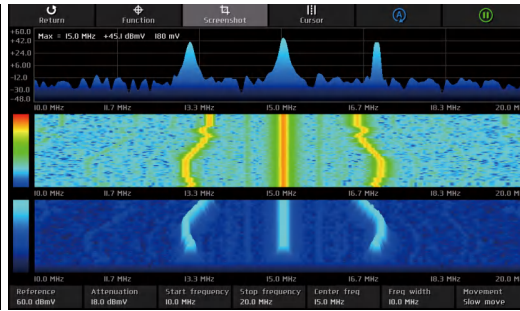
Cursor Measurement Interface



XY Mode Interface



Frequency Response Analyzer Interface



3D Waterfall Plot of the Spectrum Analyzer



## TECHNICAL SPECIFICATIONS

Oscilloscope			
Bandwidth	350MHz	Channels	2CH
Sampling rate	1GSa/s	Rise time	<1ns
Memory depth	47kpts	Waveform capture rate	50,000wfm/s
Vertical resolution	8~16 bit	Input impedance	1MΩ/14PF
Vertical sensitivity	2mV/div-20V/div	Trigger types	Auto/Normal/Single
Time base scale	5ns/div-50s/div	Trigger Detection	Digital Trigger
Cursor Measurement	Time, Cycle, Freq., Level and Voltage	Bandwidth Limit	150M/20M
Waveform storage	500 groups	Screenshot Storage	90
Auto measurements	Vpp, Vmax, Vmin, Vrms, Vavg, Vp(Peak), Freq, Cycle, Time+, Time-, Duty+, Duty- 12 types		

Waveform Generator			
Max frequency	50MHz	Channels	1CH
Vertical resolution	1Hz	Modulations	Capture waveform as a source to output, 1MHz 2.4VPP
Frequency Characteristics	Sine:50MHz 5VPP	Square:10MHz 5VPP	Triangle:5MHz 5VPP
	Sawtooth:5MHz 5VPP	Anti-sawtooth:5MHz 5VPP	Ladder wave:5MHz 5VPP
	Half wave:10MHz 5VPP	Full wave:10MHz 5VPP	Exponential wave:3MHz 5VPP
	Ringing:50MHz 5VPP	Square root wave:3MHz 5VPP	Sine superposition: 5MHz 5VPP
	Sinc pulse wave:5MHz 5VPP	DC:5MHz 5VPP	Capture wave:3MHz 5VPP

Frequency Response Analyzer			
Excitation Frequency	100Hz~50MHz	Dynamic range	> 80 dB (typical)
Test amplitude range	0~5VPP	Frequency mode	Sweep or single
Measurements	Freq., Gain and Phase	Number of test points	20 to 500 points per decade

Spectrum Analyzer			
Frequency Range	200kHz~350MHz	Amplitude Range	-60dBmV ~ +260dBmV
Conversion Modes	FFT	Waterfall Plot	2/3D
Cursor Measurement	Frequency/Amplitude	System Calibration	✓
Auto Adjust			✓

## GENERAL CHARACTERISTICS

Product Color	Graphite Gray	Product Net Weight	755g
Product Size	190*128*37mm	Standard Carton	55*39*27cm
Display	7-inch 1024*600 IPS LCD Screen	Carton Gross Weight	14.1kg
Battery	3.7V/8000mAh Lithium battery, Standby time 3 hours	Quantity Per Carton	10PCS
Standard Accessories	Main device*1, 350M Probe*2, Alligator Clip Probe *1, Charger(QC18W)*1, Data Cable*1, Manual*1		

**INTRODUCTION**

The 2D15P is a 100 MHz, 2CH, desktop-grade 3-in-1 oscilloscope, built-in Multimeter and Signal Generator. Designed for engineering students, DIY electronics enthusiasts, and entry-level labs, it delivers an efficient, intuitive testing experience with rich measurement and analysis functions, offering significant improvements in performance, accuracy, and user experience. Its faster, smarter visual interface boosts productivity. Features a 4.3" touch display with a new, intuitive UI for enhanced interaction. Premium metallic silver-gray design, sleek and modern, appealing to young users. Portable with a built-in 5000 mAh battery, ideal for handheld or desktop use.



**FEATURES**

- 100 MHz bandwidth, 500MSa/s, 2CH Phosphor 3 in 1 oscilloscope
- Built-in 10 MHz waveform generator with 9 waveform outputs
- Built-in 4½-digit 20000-count True RMS digital multimeter
- Up to 1200fps waveform capture rate for effective abnormal signal detection
- Supports 6 math operations and 13 measurement parameters
- Physical buttons and 4.3-inch capacitive touchscreen
- 5 hours battery endurance built-in 5000 mAh battery
- Languages: English / Chinese



**3 IN 1 | 100MHz | Desktop Oscilloscope Multimeter**

2D15P OSC · DMM · SG

4.3" IPS Touchscreen

- 2CH | 500MSa/s
- 19,999 | TRMS
- 10MHz DDS SG



**Multimeter Applications**



- |             |            |            |            |
|-------------|------------|------------|------------|
|             |            |            |            |
| Capacitance | Resistance | Continuity | Diode      |
|             |            |            |            |
| DC Voltage  | DC Voltage | DC Current | AC Current |

**Versatile Applications**



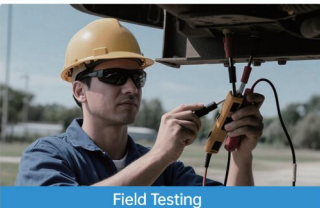
Development Engineering



Equipment Maintenance



Research & Education



Field Testing

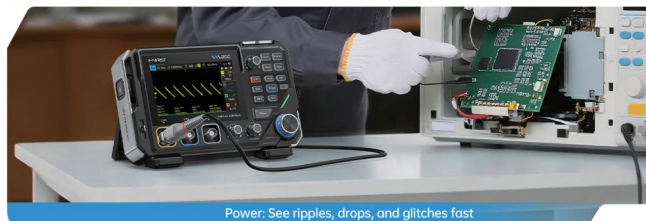
**Oscilloscope Function**



LIN Bus: Troubleshoot Communication Issues



Audio: Catch distortion & drift instantly



Power: See ripples, drops, and glitches fast

**TECHNICAL SPECIFICATIONS**

**Oscilloscope**

<b>Bandwidth</b>	100 MHz	<b>Channels</b>	2 CH
<b>Sample Rate</b>	500 MSa/s	<b>Memory Depth</b>	10K, 100K, 1M(Adjustable)
<b>Input Impedance</b>	1 MΩ	<b>Vertical Sensitivity</b>	10mV/div-10V/div
<b>Time Base</b>	50ns/div-50s/div	<b>Bandwidth Limit</b>	20 MHz
<b>Max Input Voltage</b>	800 V (×10 Probe)	<b>Trigger Mode</b>	Auto, Normal, Single
<b>Display Mode</b>	Dot, Vector, Color Temp	<b>Afterglow</b>	min/2s/5s/10s/20s/50s/∞
<b>Waveform Math</b>	6 Basic Ops	<b>Waveform Capture &amp; Save</b>	✓
<b>Waveform Export</b>	✓	<b>Cursor Measurement</b>	✓
<b>Waveforms</b>	Freq, Period, +Duty, -Duty, +Width, -Width, Rising Edge Count, Falling Edge Count, RMS, Avg,Vpp, Max and Min; 13 types		

**Waveform Generator**

<b>Max Frequency</b>	10 MHz	<b>Channel</b>	1 CH
<b>Amplitude</b>	0.1-3.0 Vpp	<b>Duty Cycle</b>	0-100%
<b>Waveform Types</b>	Sine, Square, Triangle, DC, Noise, Half-wave, Full-wave, Positive Staircase, Negative Staircase; 9 types		

**Digital Multimeter**

<b>Reading Resolution</b>	4½	<b>Display Counts</b>	20000 Counts
<b>DC Voltage</b>	1.9999V/19.999V/199.99V/1000V	<b>AC Voltage</b>	1.9999V/19.999V/199.99V/750.0V
<b>DC Current</b>	19.999mA/199.99mA/1.9999A/9.999A	<b>AC Current</b>	19.999mA/199.99mA/1.9999A/9.999A
<b>Resistance</b>	199.99Ω/1.9999kΩ/19.999kΩ/199.99kΩ/1.9999MΩ/19.999MΩ		
<b>Capacitance</b>	999.9uF/99.99uF/9.999uF/999.9nF/99.99nF/9.999nF ; 9.999mF/99.99mF		
<b>Diode</b>	✓	<b>Continuity</b>	✓

**GENERAL CHARACTERISTICS**

<b>Display</b>	4.3-inch Capacitive Touchscreen	<b>Battery</b>	3.7V/5000 mAh Lithium Battery
<b>Product Color</b>	Black & Grey	<b>Product Net Weight</b>	602g
<b>Product Size</b>	196*129*57 mm	<b>Standard Carton</b>	57*37*25.5 cm
<b>Carton Gross Weight</b>	12.05kg	<b>Quantity Per Carton</b>	10 PCS
<b>Standard Accessories</b>	Main Device*1, P6100 Probes*2, Test Leads*1, USB Data Cable*1 and User Manual*1		

**INTRODUCTION**

The 2C53P is 3 in 1 tablet screen-touch oscilloscope. In handheld portable size, it is built in 50MHz oscilloscope testing 10 common parameters, 20000 count true RMS Multimeter, as well as 10MHz Waveform generator output 12 types function signal. IPS Touch-screen brings perfect operating and shows vivid waveforms. Multifunctions make it an excellent device for maintenance groups and students in electronics field. Fashionable, concise appearance and friendly UI interface become its additional advantages to be popular in the market.



**FEATURES**

- 4.3 inch Glass IPS Touch screen
- 50MHz bandwidth, 250MSa/s sampling rate, 2CH digital oscilloscope
- Built-in 10MHz MAX Waveform Generator with 12 signals output
- Built-in 4½ bit digit multimeter
- 4 hours standby time with 3.7V/4000mAh lithium battery
- Languages: English, Russian, Spanish, Portuguese, Deutsch, Korean, Japanese, Chinese



# 3 IN 1 DUAL CHANNEL DIGITAL OSCILLOSCOPE & MULTIMETER



**BANDWIDTH 50MHZ**



**4½-DIGIT MULTIMETER**



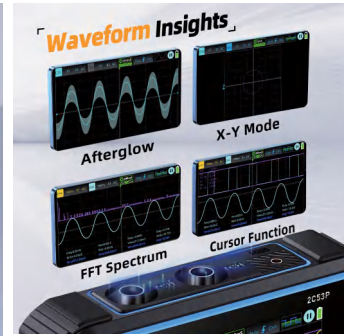
**10M SIGNAL GENERATOR**



**TOUCH SCREEN CONTROL**



50M dual-channel flat-panel oscilloscope



**TECHNICAL SPECIFICATIONS**

Oscilloscope			
Bandwidth	50MHz	Channels	2CH
Sampling Rate	250MSa/s	Memory Depth	64kByte
Limited Bandwidth	20MHz	Input Coupling	DC, AC
Vertical Sensitivity	10mV/div-10V/div	Trigger Types	Auto/Normal/Single
Time Base Scale	10ns/div - 10s/div	Input Impedance	1MΩ
Max Input Voltage	±400V	Waveform Math	+, -, ×, ÷, reverse, ABS, FFT
Auto Measurements	Max, Min, Avg, RMS, Amp, Pk-Pk, Freq, Cycle, Duty+, Duty-, Width+, Width-, 12types		

Waveform Generator			
Max Frequency	10MHz	Channels	1CH
Sampling Rate	100MSa/s	Resolution	1Hz
Vertical Resolution	8 digit	Wave Length	512pts
Waveforms	Sine, square, sawtooth, half wave, full wave, positive step, negative step, DC signal, exponential rise, exponential fall, multitone, and sync pulse; 12 types		
Frequency Characteristics	Sin: 1Hz~10MHz	Square: 1Hz~5MHz	
	Sawtooth:1Hz~10MHz	Half wave: 1Hz~5MHz	
	Full wave:1Hz~5MHz	Other 7 waves: 1Hz~5MHz	

Digit Multimeter			
Reading Resolution	4½	Display Count	20000 count
DC Voltage (V)	1.9999V/19.999V/199.99V/1000V ±(0.5%+3)	AC Voltage (V)	1.9999V/19.999V/199.99V/750.0V ±(1%+3)
DC Current (A)	19.999mA/199.99mA/1.9999A/9.999A ±(1.2%+3)	AC current (A)	19.999mA/199.99mA/1.9999A/9.999A ±(1.5%+3)
Resistance (Ω)	19.999MΩ/1.9999MΩ/199.99KΩ/19.999KΩ ±(1.5%+3); 1.9999KΩ/199.99Ω ±(0.5%+3)		
Capacitance (F)	9.999nF/99.99nF/999.9nF/9.999μF/99.99μF/999.9μF ±(2.0%+5); 9.999mF/99.99mF ±(5.0%+20)		
Frequency (Hz)	9.999Hz/99.99Hz/999.9Hz/9.999kHz/99.99kHz/999.9kHz/9.999MHz Acc: ±(0.1%+2)		
Temperature	(-55~1300°C)/(-67~2372°F) Acc: ±(2.5%+5)		
Diode	✓	Continuity Test	✓
NCV	✓	Live	✓

**GENERAL CHARACTERISTICS**

Product Color	Blue & Black	Product Net Weight	364g
Product Size	145x98x35mm	Standard Carton	48*29.5*38cm
Display	4.3-inch IPS Tempered Glass Touchscreen (480 x 272)	Carton Gross Weight	15.5kg
Battery	3.7V, 4000mAh, Lithium battery, Standby time 4 hours	Quantity Per Carton	20PCS
Languages	English, Russian, Spanish, Portuguese, Deutsch, Korean, Japanese, Chinese		
Standard Accessories	Main device*1, P6100 Probe*2, Alligator Clip Probe *1, Multimeter Probe*1, Data Cable*1, Manual*1		

**INTRODUCTION**

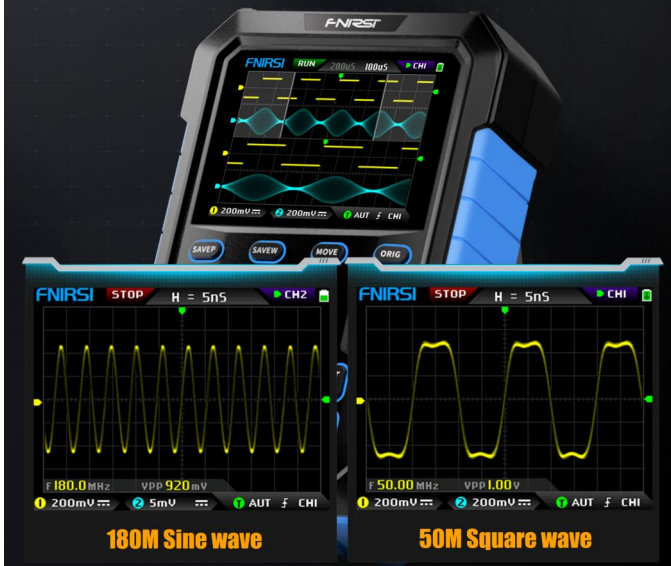
The DPOX180H is a 2 in 1 portable phosphor oscilloscope, 180MHz, 500MSa/s and 50000wfms/s oscilloscope built in 20MHz waveform generator. Phosphor display shows perfect waveforms and details, zoom function makes it unique from same level products, friendly UI interface makes operation never be complicated, all these makes it a perfect tool for maintenance groups, R&D engineers and students in electronics field, to do electronics testing, troubleshooting and maintenance in different scenes.

**FEATURES**

- 180MHz bandwidth, 500MSa/s sampling rate, 2CH digital oscilloscope
- Built in 20MHz waveform generator with 14 types signal output
- Phosphor technology shows perfect waveforms and details
- Limited 20 MHz bandwidth to filter out noise above 20 MHz
- High voltage protection, withstands 400V
- Languages: English, Russian, Portuguese, Chinese



**180MHZ BANDWIDTH AND 500MSPS REAL-TIME SAMPLING RATE**



**180M Sine wave**

**50M Square wave**

**20M FUNCTION SIGNAL GENERATOR**

The built-in signal generator can output capture wave and produce 14 types of function signals up to 10MHz, especially sine wave to be 20MHz.



**ZOOM SCALING TIME BASE**



**20M BANDWIDTH LIMIT**



**FLUORESCENT DISPLAY TECHNOLOGY**

# HANDHELD 2 IN1 DIGITAL PHOSPHOR OSCILLOSCOPE



HIGH VOLTAGE  
ANTI-BURNING  
PROTECTION



5MV/DIV HIGH  
SENSITIVITY



180MHZ ANALOG  
BANDWIDTH



500MSPS REAL-TIME  
SAMPLING RATE



2-in-1 Digital Phosphor Oscilloscope



## TECHNICAL SPECIFICATIONS

### Oscilloscope

<b>Bandwidth</b>	180MHz	<b>Channels</b>	2CH
<b>Sampling Rate</b>	500MSa/s	<b>Rise Time</b>	1.8ns
<b>Memory Depth</b>	120kpts	<b>Waveform Capture Rate</b>	50000wfms/s
<b>Vertical Sensitivity</b>	5mV/div-10V/div	<b>Input Impedance</b>	1MΩ
<b>Time Base Scale</b>	5ns/div-50s/div	<b>Trigger Types</b>	Auto/Normal/Single
<b>Auto Measurements</b>	Max, Min,Avg, RMS, Peak, Pk-Pk, Freq, Cycle, Time+, Time-, Duty+, Duty- 12 types		

### Waveform Generator

<b>Max Frequency</b>	20MHz	<b>Channels</b>	1CH
<b>Resolution</b>	1Hz		
<b>Frequency Characteristics</b>	Sin: 20MHz 1VPP	Square: 10MHz 1VPP	
	Triangle: 10MHz 1VPP	Sawtooth: 10MHz 1VPP	
	Ladder: 10MHz 1VPP	Others: 10MHz 1VPP	
<b>Waveforms</b>	sine, square, triangle, sawtooth, anti sawtooth, ladder wave, half wave, full wave, exponential wave, logarithmic wave, log-periodic wave, square root wave, multi-tone signal, sync pulse wave; 14 types		

## GENERAL CHARACTERISTICS

<b>Product Color</b>	Blue & Black	<b>Product Net Weight</b>	325g
<b>Product Size</b>	135*90*40mm	<b>Standard Carton</b>	48*28.5*39cm
<b>Display</b>	2.8-inch IPS Screen 320*240	<b>Carton Gross Weight</b>	13.6kg
<b>Battery</b>	3.7V, 3000mAh, Lithium battery, Standby time 4 hours	<b>Quantity Per Carton</b>	20PCS
<b>Standard Accessories</b>	Main device*1, P6100 Probe*2, Charger*1, Data Cable*1, Manual*1		

**INTRODUCTION**

The 2C53T is an upgraded 3 in 1 oscilloscope and multimeter. It has 2CH 50MHz bandwidth, 250MSa/s sampling rate oscilloscope, support XY, YT, scrolling modes, 8 math operations and FFT analysis; Built in 50kHz signal generator can output 13 types of functions signal; 20000 count multimeter can test 750V AC, 1000V DC and 10A current. It is quite practical and accurate enough for maintenance groups and college students in electronics field. Portable size, fashionable appearance as well as vivid display interface, make it a well popular device in the market.

**FEATURES**

- 2CH, 50MHz bandwidth, 250MSa/s sampling rate, 1kpts memory depth
- Supports XY/YT/Scrolling Mode, FFT analysis, 8 math operations and persistence display
- 50kHz signal generator
- 20000 count multimeter
- 2.8-inch TFT Real color screen
- 6 hours battery endurance
- Languages: Chinese, English



**FNIRSI™ 3in1**

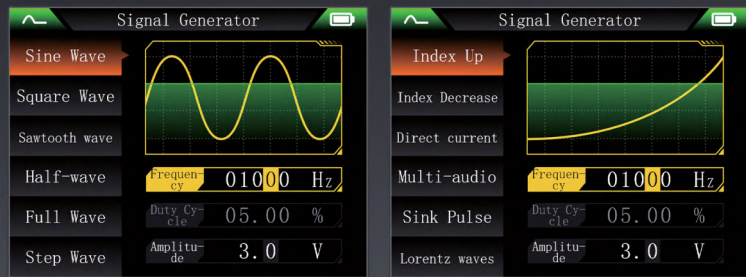
**HIGH PRECISION DIGITAL OSCILLOSCOPE**

- XY/YT Mode
- 3 Persistences
- 8 Math Operations
- DUAL CHANNEL OSCILLOSCOPE
- 50MHz ANALOG BANDWIDTH
- 250MSa/s SAMPLING RATE



**FUNCTION SIGNAL GENERATOR**

Output 13 types waveform with frequency 1Hz-50kHz and amplitude 0.1-3V adjustable.



**4½ DIGIT MULTIMETER**

- DC 1000V ; AC 750V
- Current 10A
- Capacitor 100mF
- Resistor 20MΩ
- Diode
- Continuity
- Temperature



**INTELLIGENT ANTI BURNING**

This protection makes electricity measurement much safer and quite suitable for beginner.



# DUAL CHANNEL OSCILLOSCOPE MULTIMETER



**50MHZ BANDWIDTH**



**4½ DIGITS 20000 COUNT**



**13 TYPES SIGNAL OUTPUT**



**INTELLIGENT ANTI BURNING**



Dual channel oscilloscope multimeter



## TECHNICAL SPECIFICATIONS

### Oscilloscope

<b>Bandwidth</b>	50MHz	<b>Channels</b>	2CH
<b>Sampling Rate</b>	250MSa/s	<b>Memory depth</b>	1kpts
<b>Vertical Sensitivity</b>	10mV/div-10V/div	<b>Input Impedance</b>	1MΩ
<b>Time Base Scale</b>	10ns/div-20s/div	<b>Trigger Types</b>	Auto/Normal/Single
<b>Auto Measurements</b>	Max, Min, Avg, RMS, Amp, Pk-Pk, Freq, Cycle, Duty+, Duty-, Width+, Width-, 12types		

### Waveform Generator

<b>Max Frequency</b>	50kHz	<b>Channels</b>	1CH
<b>Modulations</b>	0-3V		
<b>Waveforms</b>	sine, square, sawtooth, half wave, full wave, positive step, negative step, DC signal, exponential rise, exponential fall, multitone, sync pulse and lorentz wave 13 types		

### Digit Multimeter

<b>Reading Resolution</b>	4½ bit	<b>Display Count</b>	20000 Count
<b>DC Voltage (V)</b>	1000V	<b>AC Voltage (V)</b>	750V
<b>DC &amp; AC Current (A)</b>	10A	<b>AC Current (A)</b>	10A
<b>Resistance (Ω)</b>	19.999MΩ/1.9999MΩ/199.99KΩ/19.999KΩ ±(0.5%+3); 1.9999KΩ/199.99Ω ±(2.0%+3)		
<b>Capacitance (F)</b>	9.999nF/99.99nF/999.9nF/9.999μF/99.99μF/999.9μF ±(2.0%+5); 9.999mF/99.99mF ±(5.0%+20)		
<b>Frequency (Hz)</b>	9.999Hz/99.99Hz/999.9Hz/9.999kHz/99.99kHz/999.9kHz/9.999MHz Acc: ±(0.1%+2)		
<b>Temperature</b>	(-55~1300°C)/(-67~2372°F) Acc: ±(2.5%+5)		
<b>Diode</b>	✓	<b>Continuity Test</b>	✓
<b>NCV</b>	✓	<b>Live</b>	✓

## GENERAL CHARACTERISTICS

<b>Product Color</b>	Blue & Black	<b>Product Net Weight</b>	300g
<b>Product Size</b>	167x89x35mm	<b>Standard Carton</b>	49*45*30cm
<b>Display</b>	2.8-inch TFT Real Color Screen (320*240)	<b>Carton Gross Weight</b>	18kg
<b>Battery</b>	3.7V, 3000mAh, Lithium battery, Standby time 6 hours	<b>Quantity Per Carton</b>	20PCS
<b>Standard Accessories</b>	Main device*1, P6100 Probe*1, Multimeter Probe*1, Crocodile Clip Probe*1, Data Cable*1, Manual*1		

**INTRODUCTION**

The 2C23T is a 3 In 1 10MHz 2CH digital oscilloscope, built in 2MHz signal generator and 10000 count multimeter with 3000mAh battery. It's high cost performance tool and widely used by high college students, tech amateurs and maintenance groups for daily learning and testing. Except exciting performances, excellent appearance and friendly UI interface are also its advantage to catch attentions in the market.

**FEATURES**

- 10MHz bandwidth, 50MSa/s sampling rate, 2CH digital oscilloscope
- 2.8-inch TFT Real Color Screen
- Built in double fuse
- Built-in 2MHz MAX Waveform Generator with 12 types signal output
- Built-in 4 bit digit multimeter
- 6 hours standby time with 3.7V / 3000mAh lithium battery
- Languages: English, Russian, Spanish, Portuguese, Deutsch, Korean, Japanese, Chinese



**FNIRSI™ 3in1**

**DOUBLE THE EFFICIENCY OF USING FULLY FUNCTIONAL TOOL**

Oscilloscope + Multimeter + Signal Generator

- Dual channel 2X10MHz bandwidth
- 50MS/s real-time sampling rate
- 7 signal waveforms
- 9999 Counting

**WIDELY APPLICABLE FOR + PRECISE MEASUREMENT**

220V mains power measurement

Switching power supply measurement

**DUAL CHANNEL 10MHZ ANALOG BANDWIDTH 50M SAMPLING RATE**

CH1  
CH2  
DDS

**SIGNAL GENERATOR FUNCTION INTRODUCTION**

- ▶ Output waveform: sine wave, square wave, triangular wave, full wave, half wave, noise wave, DC
- ▶ Output frequency: 1Hz-2MHz
- ▶ Output amplitude: 0.1-3.3V

Signal Generator

SINE

SQUARE

TRIANGLE

Half-wave

Full-wave

FREQ 01000 Hz

Duty 50 %

AMP 3.3 V

Signal Generator

SINE

SQUARE

TRIANGLE

Half-wave

Full-wave

FREQ 01000 Hz

Duty 50 %

AMP 3.3 V

# DUAL CHANNEL OSCILLOSCOPE MULTIMETER



Dual channel oscilloscope multimeter



## TECHNICAL SPECIFICATIONS

Oscilloscope			
<b>Bandwidth</b>	10MHz	<b>Channels</b>	2CH
<b>Sampling Rate</b>	50MSa/s	<b>Memory depth</b>	32kpts
<b>Vertical Sensitivity</b>	20mV/div-10V/div	<b>Input Impedance</b>	1MΩ
<b>Time Base Scale</b>	50ns/div-10s/div	<b>Trigger Types</b>	Auto/Normal/Single
<b>Auto Measurements</b>	Max, Min,Avg, RMS, Peak, Pk-Pk, Freq, Cycle, Time+, Time-, Duty+, Duty- 12 types		

Waveform Generator			
<b>Max Frequency</b>	2MHz	<b>Channels</b>	1CH
<b>Sampling Rate</b>	100MSa/s	<b>Resolution</b>	1Hz
<b>Vertical Resolution</b>	8 digit	<b>Wave Length</b>	512pts
<b>Waveforms</b>	sine, square, triangle, half wave, full wave, nosie wave, DC signal; 7 types		

Digit Multimeter			
<b>Reading Resolution</b>	4 bit	<b>Display Count</b>	10000 Count
<b>DC Voltage (V)</b>	9.999V/99.99V/999.9V ±(0.5%+3)	<b>AC Voltage (V)</b>	9.999V/99.99V/750.0V±(1%+3)
<b>DC &amp; AC Current (A)</b>	DC: 9999uA/99.99mA/999.9mA/9.999A ±(1.2%+3) AC: 9999uA/99.99mA/999.9mA/9.999A ±(1.5%+3)		
<b>Resistance (Ω)</b>	999.9Ω/9.999kΩ/99.99kΩ/999.9kΩ/9.999MΩ Acc: ±(0.5%+3); 99.99MΩ Acc: ±(1.5%+3)		
<b>Capacitance (F)</b>	9.999nF/99.99nF/999.9nF/9.999μF/99.99μF/999.9μF Acc: ±(2.0%+5); 9.999mF/99.99mF Acc: ±(5.0%+20)		
<b>Frequency (Hz)</b>	9.999Hz/99.99Hz/999.9Hz/9.999kHz/99.99kHz/999.9kHz/9.999MHz Acc: ±(0.1%+2)		
<b>Temperature</b>	(-55~1300°C)/(-67~2372°F) Acc: ±(2.5%+5)		
<b>Diode</b>	✓	<b>Continuity Test</b>	✓
<b>NCV</b>	✓	<b>Live</b>	✓

## GENERAL CHARACTERISTICS

<b>Product Color</b>	Blue & Black	<b>Product Net Weight</b>	300g
<b>Product Size</b>	167x89x35mm	<b>Standard Carton</b>	54*29*45cm
<b>Display</b>	2.8-inch TFT Real Color Screen (320*240)	<b>Carton Gross Weight</b>	14.4kg
<b>Battery</b>	3.7V, 3000mAh, Lithium battery, Standby time 6 hours	<b>Quantity Per Carton</b>	20PCS
<b>Standard Accessories</b>	Main device*1, 10× Probe*1, Multimeter Probe*1, Crocodile Clip Probe*1, Data Cable*1, Manual*1		

**INTRODUCTION**

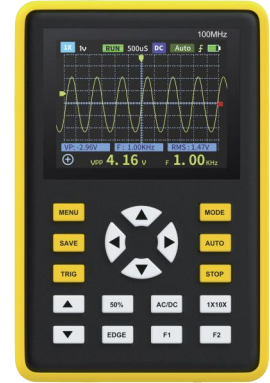
The 1C15 & 5012H are portable digital oscilloscope with bandwidth 100~110MHz, and 500MSa/s sampling rate, adapts to electronics maintenance field and most daily testings in initial electronics education. It is a perfect tool which can efficiently and adaptably accomplishing different electronics testings. The device is based on traditional controlling methods which makes it easy to learn and familiarize how to use it.

**FEATURES**

- 100~110 MHz, with 500MSa/s sampling rate
- 3.7V, 3000mAh, Lithium batter with stand by 8~10 hours
- 1C15 Roll mode and afterglow enhance waveform detection and recording.
- 1C15 adpot the joystick instead of buttons, simplifying and streamlining operation.
- 5012H afterglow adjustable 1~8 level
- Languages: English, Chinese



**1C15**



**5012H**



**TECHNICAL SPECIFICATIONS**

	<b>1C15</b>	<b>5012H</b>
<b>Bandwidth</b>	110MHz	100MHz
<b>Memory Depth</b>	120kpts	128kpts
<b>Time Base Scale</b>	5ns/div-10s/div	6ns/div-50s/div
<b>Auto Measurements</b>	Freq, Pk-Pk, Duty+, Duty-, Amp, Amp+, Amp-, Max, Min, Cycle, RMS, Mean, Width+, Width-; 14 types	Freq, Pk-Pk, Peak, Duty+, Duty-, Time+, Time-, Time, Max, Min, Avg, RMS; 12 types
<b>Channels</b>	1CH	
<b>Sampling Rate</b>	500MSa/s	
<b>Rise Time</b>	<3ns	
<b>Vertical Sensitivity</b>	20mV/div~100V/div	
<b>Input Impedance</b>	1MΩ	
<b>Trigger Types</b>	Auto/Normal/Single	

**GENERAL CHARACTERISTICS**

	<b>1C15</b>	<b>5012H</b>
<b>Product Color</b>	Blue & White	Yellow & Black
<b>Product Size</b>	139*75*30mm	114*74*33mm
<b>Display</b>	2.4-inch TFT Real Color Screen (320*240)	2.4-inch TFT Color Screen (320*240)
<b>Battery</b>	3.7V, 3000mAh, Lithium battery, Standby time 10 hours	3.7V, 3000mAh, Lithium battery, Standby time 8 hours
<b>Product Net Weight</b>	210g	223g
<b>Standard Carton</b>	60.5*41.5*45.5cm	58*42*42cm
<b>Carton Gross Weight</b>	23.56kg	29.6kg
<b>Quantity Per Carton</b>	50PCS	72PCS
<b>Standard Accessories</b>	Main device*1, High Voltage Probe*1, Alligator Clip Probe*1, data cable*1, Charger*1, Manual*1	Main device*1, 100MHz Probe*1, Alligator Clip Probe*1, data cable*1, Manual*1

**INTRODUCTION**

The DS215H is a newly designed dual-channel portable digital oscilloscope, specifically engineered for the repair and R&D industries. It integrates an oscilloscope and a signal generator and adopts an FPGA + MCU + ADC hardware architecture for superior performance. Featuring a 3.5-inch color screen, it delivers clear and intuitive visuals. Its unique design incorporates a rotary dial for seamless selection and switching, offering users a portable and efficient operating experience. The DS215H is an ideal tool for education, repair, development, and testing applications.



**FEATURES**

- 50MHz bandwidth, 250MSa/s sampling rate digital oscilloscope
- 50kHz MAX frequency, 13 types of function signal generator
- Supports waveform screenshot saving and viewing, facilitating data analysis
- 3.5-inch color screen, it delivers clear and intuitive visuals
- 8 languages: Chinese, English, German, Portuguese, Japanese, Spanish, Korean, Russian



**TECHNICAL SPECIFICATIONS**

Oscilloscope			
Bandwidth	50MHz	Channels	2CH
Sampling rate	250MSa/s	Input impedance	1MΩ
Vertical sensitivity	10mV/div-10V/div	Trigger types	Auto/Normal/Single
Time base scale	20nS/div-20S/div	Storage space	14M
Vertical Resolution	8 bits	Waveform Display Mode	Scroll
Picture storage	✓	Auto Calibration	✓
Measurement data	Freq,Cycle,+Duty,-Duty,+Width,-Width,Max,Min,Vpp,Amp,RMS,Avg		

Waveform Generator			
Max Frequency	50kHz	Channels	1CH
Resolution	0.1-3V	Duty of Square	0-100% adjustable
Waveforms	sine,square,sawtooth,half wave,full wave,positive ladder,negative ladder,exponential rise, exponential fall,DC,multi-tone,sinc pulse,lorentz wave;13 types		

**GENERAL CHARACTERISTICS**

Product Color	Black & Gray	Product Net Weight	146g
Product Size	66x110x19.5mm	Standard Carton	54*43*31.5cm
Display	3.5-inch IPS high-definition color screen	Carton Gross Weight	19.75kg
Battery	3.7V/1500mAh Lithium battery, Standby time 4 hours	Quantity Per Carton	50PCS

**INTRODUCTION**

The DSO-TC4 is an upgraded transistor oscilloscope from DSO-TC3, specifically designed for maintenance and R&D applications. It features a 10 MHz oscilloscope with 48 MSa/s sampling rate, supports 13 signal output functions up to 50 kHz, and it is equipped with highly sensitive and precise component testing slots for fast and accurate measurement of various electronic components. Additional functions include continuity testing, temperature and humidity measurement, as well as infrared decoding. With its porcelain casing and compact handheld design, the DSO-TC4 is an excellent practical and innovative tool, widely favored by electronics repair technicians and R&D professionals.

**FEATURES**

- 10MHz 48MSa/s digital oscilloscope
- 50kHz 13 types of function signals generator
- Transistor tester for capacitor, resistance, inductor, diode, triode etc
- Infrared decoding & continuity testing
- 8 Languages: Chinese, English, German, Portuguese, Japanese, Spanish, Korean, Russian



**3-IN-1 DIGITAL OSCILLOSCOPE**  
TRANSISTOR TESTER & SIGNAL GENERATOR

- 10MHz Bandwidth
- 48MSa/s sampling
- 13 Signals output
- component test
- One-key Auto

**13 SIGNAL WAVEFORMS**  
FOR VARIOUS TESTING NEEDS

Frequency: 0-50KHz, Amplitude: 0.1-3.0V

**SMALL TOOL, BIG POWER**  
**ALL-IN-ONE TOOLBOX**

- NEC IR Decoding
- Voltage Test
- Continuity Test
- DS18B20 Measure
- DHT11 Measure

**FULL-RANGE SMART**  
**ANTI-BURN PROTECTION**

Safe Measurement, Complete Protection  
for Your Safety



	DSO-TC4	DSO-TC3
<b>Languages</b>	Chinese, English, German, Portuguese, Japanese, Spanish, Korean, Russian	Chinese, English
<b>Bandwidth</b>	10MHz	500KHz
<b>Sampling rate</b>	48MSa/s	10MSa/s
<b>Time base</b>	50ns~20s	1μs~10s
<b>Trigger waveform</b>	13 kinds	6 kinds
<b>Transistor &amp; Diode</b>	✓	✓
<b>Zener Diode</b>	✓	✓
<b>FET (JFET/IGBT/MOS)</b>	✓	✓
<b>SCR &amp; TRIAC</b>	✓	✓
<b>DS18B20 &amp; DHT11</b>	✓	✓
<b>NEC IR Decoding</b>	✓	✓
<b>Capacitor</b>	25pF~100mF	25pF~100mF
<b>Resistor</b>	0.1Ω~50MΩ	0.1Ω~50MΩ
<b>Inductor</b>	10μH~1000mH	10μH~1000mH
<b>Display Parameters</b>	2.8" TFT color screen	2.4" TFT color screen
<b>USB Image Sharing</b>	✓	✗

**TECHNICAL SPECIFICATIONS**
**Oscilloscope**

<b>Bandwidth</b>	10MHz	<b>Channels</b>	1CH
<b>Sampling rate</b>	48MSa/s	<b>Input impedance</b>	1MΩ
<b>Vertical sensitivity</b>	10mV/div-10V/div	<b>Trigger types</b>	Auto/Normal/Single
<b>Time base scale</b>	50nS/div-20S/div	<b>Afterglow Mode</b>	500ms-∞
<b>Picture storage</b>	✓	<b>Auto Calibration</b>	✓
<b>Auto Measurements</b>	Cycle, Freq, Max, Min, RMS, Avg, Vpp, Amp, +Duty, -Duty, +Width, -Width		

**Waveform Generator**

<b>Max Frequency</b>	50kHz	<b>Channels</b>	1CH
<b>Resolution</b>	1Hz	<b>Duty of Square</b>	0-100% adjustable
<b>Amplitude</b>	0.1-3V		
<b>Waveforms</b>	sine, square, sawtooth, half wave, full wave, positive step, negative step, DC signal, exponential rise, exponential fall, multitone, sinc pulse and lorentz wave 13 types		

**Transistor Tester**

<b>Capacitor</b>	✓	<b>Resistance</b>	✓
<b>Inductor</b>	✓	<b>Diode</b>	✓
<b>Triode</b>	✓	<b>Regulated diode</b>	✓
<b>MOSFET</b>	✓	<b>SCRs/TRIAC</b>	✓

**GENERAL CHARACTERISTICS**

<b>Product Color</b>	Black & Grey	<b>Product Net Weight</b>	187g
<b>Product Size</b>	90x142x27.5mm	<b>Standard Carton</b>	54*43*33.5cm
<b>Display</b>	2.8-inch TFT color screen	<b>Carton Gross Weight</b>	22.2kg
<b>Battery</b>	3.7V/1500mAh Lithium battery, Standby time 4 hours	<b>Quantity Per Carton</b>	50PCS
<b>Standard Accessories</b>	Main device x1, P6100 probe x1, Ordinary probe x1, Test hook x3, Data cable x1, Manual x1		

**INTRODUCTION**

The DSO-TC3 is a MINI type 3 in 1 pocket oscilloscope with 500kHz bandwidth, 10MSa/s sampling rate. It's integrated a Max 100kHz frequency signal generator and a smart automatic electronic component tester. DSO-TC3 is designed for electronic beginners and students for simple testing and maintenance in laboratory, class and outdoor scenes. Multiple practical functions, exquisite appearance as well as affordable cost, makes it a widely popular auxiliary tool.

**FEATURES**

- 500kHz 10MSa/s oscilloscope
- 100 kHz 6 types signal generator
- Transistor tester
- Infrared decoding and continuity testing
- 2.4 inch TFT color screen
- Languages: English, Chinese



**Digital Oscilloscope + Function Signal Generator+ Transistor Tester**



**FUNCTION SIGNAL GENERATOR**

- ▶ 6 kinds of signal waveforms: sine wave, square wave, pulse wave, triangle wave, ramp wave, DC
- ▶ Output frequency adjustable 1-100kHz
- ▶ Output voltage adjustable 3.3V
- ▶ Output duty ratio adjustable 0-100%

<p><b>Generator</b></p> <ol style="list-style-type: none"> <li>1.Sine</li> <li>2.Square</li> <li>3.Pulse</li> <li>4.Triangle (Freq:10000Hz)</li> <li>5.Ramp (Amp: 3.0 V)</li> <li>6.DC</li> </ol>	<p><b>Generator</b></p> <ol style="list-style-type: none"> <li>1.Sine</li> <li>2.Square</li> <li>3.Pulse</li> <li>4.Triangle (Freq:10000Hz)</li> <li>5.Ramp</li> <li>6.DC</li> </ol>
<p><b>Generator</b></p> <ol style="list-style-type: none"> <li>1.Sine</li> <li>2.Square</li> <li>3.Pulse</li> <li>4.Triangle (Freq:10000Hz)</li> <li>5.Ramp (Amp: 3.0 V)</li> <li>6.DC (Duty: 50 %)</li> </ol>	<p><b>Generator</b></p> <ol style="list-style-type: none"> <li>1.Sine</li> <li>2.Square</li> <li>3.Pulse</li> <li>4.Triangle (Freq:10000Hz)</li> <li>5.Ramp (AMP: 3.0 V)</li> <li>6.DC</li> </ol>

**TOOL BOX**

- ▶ Automatically analyze NEC protocol infrared code
- ▶ Other function modes: including circuit continuity test, 0-40V input voltage measurement, PWM output, 0-32V Zener diode measurement, DS18B20 temperature sensor measurement, DHT11 temperature and humidity sensor measurement, etc.

<p><b>Tools</b></p> <ol style="list-style-type: none"> <li>1.Tongduan</li> <li>2.Voltage</li> <li>3.DS18B20</li> <li>4.DHT11</li> <li>5.IR Decode</li> <li>6.Calibrate</li> </ol>	<p><b>Tools</b></p> <ol style="list-style-type: none"> <li>1.Tongduan</li> <li>2.Voltage (Range:0-40V)</li> <li>3.DS18B20</li> <li>4.DHT11</li> <li>5.IR Decode</li> <li>6.Calibrate</li> </ol>
<p><b>Tools</b></p> <ol style="list-style-type: none"> <li>1.Tongduan</li> <li>2.Voltage</li> <li>3.DS18B20</li> <li>4.DHT11</li> <li>5.IR Decode</li> <li>6.Calibrate</li> </ol>	<p><b>Tools</b></p> <ol style="list-style-type: none"> <li>1.Tongduan</li> <li>2.Voltage</li> <li>3.DS18B20</li> <li>4.DHT11</li> <li>5.IR Decode</li> <li>6.Calibrate</li> </ol> <p>Put pin 124 to holes with different NO.</p>





# 3 IN 1 INTELLIGENT OSCILLOSCOPE

-   
**500KHZ BANDWIDTH**
-   
**100KHZ & TYPES SIGNAL GENERATOR**
-   
**COMPONENT TESTER**
-   
**MINI PORTABLE**

## TECHNICAL SPECIFICATIONS

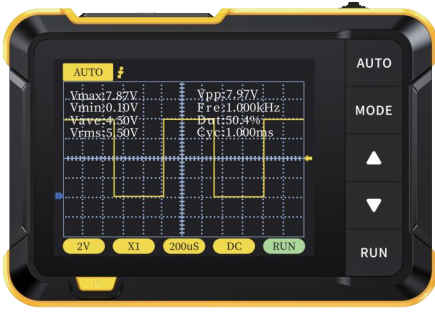
Oscilloscope			
Bandwidth	500kHz	Channels	1CH
Sampling Rate	10MSa/s	Vertical Sensitivity	10mV/div-10V/div
Time Base Scale	1μs/div-10s/div	Input Impedance	1MΩ
Trigger Types	Auto/Normal/Single		
Auto Measurements	Period, Freq, Pk-Pk, Max, Min, Avg, RMS, Duty Cycle; 8 types		

Waveform Generator			
Max Frequency	100kHz	Channels	1CH
Resolution	1Hz		
Frequency Characteristics	Sine: 1-100KHz/0-3.3V/50%	Square: 1-100KHz/3.3V/50%	
	Pulse: 1-100KHz/3.3V/0-100%	Triangle: 1-100KHz/0-3.3V/50%	
	Ramp: 1-100KHz/0-3.3V/0-100%	DC: 0-3.3V	
Waveforms	sine, square, pluse, triangle, ramp, DC; 6 types		

Component Tester			
Capacitor	✓	Resistance	✓
Inductor	✓	Diode	✓
Triode	✓	Regulated Diode	✓
MOSFET	✓	SCRs/TRIAC	✓

## GENERAL CHARACTERISTICS

Product Color	Blue & Black	Product Net Weight	138g
Product Size	79*103*31mm	Standard Carton	63.5*32*30.5cm
Display	2.4 inch TFT color screen	Carton Gross Weight	14.9kg
Battery	3.7V, 1500mAh Lithium battery, Standby time 4 hours	Quantity Per Carton	50PCS
Standard Accessories	Main device*1, Ordinary Probe *1, Test hook*3, Data Cable*1, Manual*1		



**DS0152**



**DS0153**



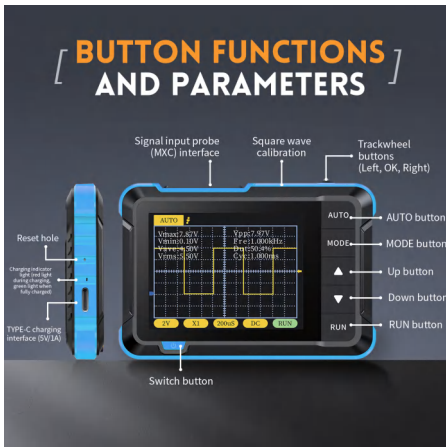
**DS0510**

**INTRODUCTION**

The DS0152, DS0153 and DS0510 are 3 mini portable and exquisite oscilloscopes. Basic version DS0152 is 200KHz oscilloscope, auto testing helps maintenance and college students easily deal with voltage and frequency testing requirements in daily works or education activities. The latter two are upgraded ones. DS0153 has 1MHz bandwidth and it is integrated 10KHz signal generator outputs 14 types signals. DS0510 is a new upgraded device with 10MHz bandwidth and 50KHz signal generator which can output 13 types of signals. As entry-level oscilloscopes, they have steady performances and fashionable appearances, which make them very popular in the market.

**FEATURES**

- Basic version DS0152 200kHz 2.5MSa/s oscilloscope
- Upgraded version DS0153 1MHz 5MSa/s oscilloscope, 10kHz signal generator
- Upgraded version DS0510 10MHz 48MSa/s oscilloscope, 50kHz signal generator
- 2.8-inch PPI color screen
- 4 hours battery endurance
- Pocket size 99x68.3x19.5mm, 100g



**TECHNICAL SPECIFICATIONS**

<b>Oscilloscope</b>			
	<b>DSO152</b>	<b>DSO153</b>	<b>DSO510</b>
<b>Bandwidth</b>	200kHz	1MHz	10MHz
<b>Channels</b>	1CH	1CH	1CH
<b>Sampling Rate</b>	2.5MSa/s	5MSa/s	48MSa/s
<b>Vertical Sensitivity</b>	10mV/div-20V/div	10mV/div-10V/div	10mV/div-10V/div
<b>Input Impedance</b>	1MΩ	1MΩ	1MΩ
<b>Time Base Scale</b>	10μs/div-50s/div	500ns/div-20s/div	50ns/div-20s/div
<b>Trigger Types</b>	Auto/Normal/Single	Auto/Normal/Single	Auto/Normal/Single
<b>Auto Measurements</b>	Max, Min, Avg, RMS, Vpp, Freq, Duty, Cycle; 8 types	Max, Min, Avg, RMS, Vpp, Amp, Freq, Duty+, Duty-, Width+, Width-, Period; 12 types	Max, Min, Avg, RMS, Vpp, Amp, Freq, Duty+, Duty-, Width+, Width-, Period; 12 types
<b>Languages</b>	Chinese, English	English, Russian, Spanish, Portuguese, Deutsch, Korean, Japanese, Chinese; 8 languages	Chinese, English

<b>Waveform Generator</b>			
	<b>DSO152</b>	<b>DSO153</b>	<b>DSO510</b>
<b>Max frequency</b>	/	10kHz	50kHz
<b>Channels</b>	/	1CH	1CH
<b>Waveforms</b>	/	sine wave, square wave, sawtooth wave, half wave, full wave, ladder wave, anti-ladder wave, noise wave, exponential rise, exponential fall, DC, multitone, sinc pulse, lorentz wave, 14 types	

**GENERAL CHARACTERISTICS**

	<b>DSO152</b>	<b>DSO153</b>	<b>DSO510</b>
<b>Product Color</b>	Yellow & Black	Blue & Black	
<b>Product Size</b>	99x68.3x19.5mm		
<b>Display</b>	2.8-inch PPI Screen (320*240)		
<b>Battery</b>	3.7V, 1000mAh, Lithium battery, Standby time 4 hours		
<b>Standard Accessories</b>	Main device*1, Crocodile Clip Probe *1, Data Cable*1, Lanyard*1, Manual*1		
<b>Product Net Weight</b>	100g		
<b>Standard Carton</b>	46*43*27cm	46*43*27cm	56*43*27cm
<b>Carton Gross Weight</b>	18kg	18kg	15.88kg
<b>Quantity Per Carton</b>	100PCS	100PCS	50PCS

**INTRODUCTION**

The DST-210 & DST-201 are cost-effective 3 in 1 handheld multimeters, built in oscilloscope and signal generator. It enables to provide precise measurement of normal electrical parameters, and the generation of typical signals as well, and it can help analyze transient waveforms within circuits. They have characteristics like ergonomic design, lightweight, positions them as universal instruments designed for engineers. They can be applicable for many fields, such as primary users, DIY application, home appliance repair, car maintenance, measuring electricity, experimental teaching, etc. It is ideal for applications requiring simultaneous signal waveform analysis and voltage, current, and other electrical measurements.

**FEATURES**

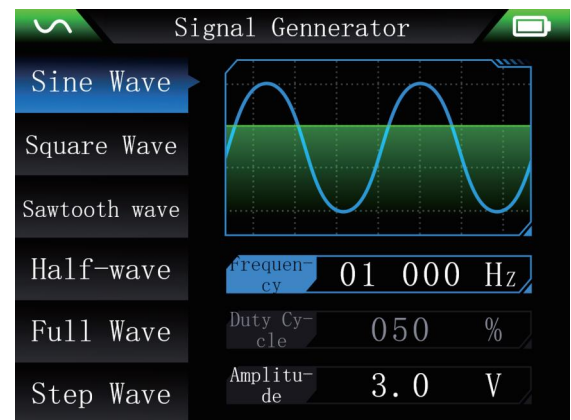
- Both are 3-in-1 20000 counts Multimeter, built in Oscilloscope & Signal Generator
- Matched with 2.8-inch TFT color display
- Real-time curve recording
- Data hold and overload protection
- Standby time achieves over 15h
- Classical knob operation with rapid responses
- DST-210 has 10MHz 48MSa/s Oscilloscope and 50kHz Signal Generator 13 types of signal
- DST-201 has 1MHz 5MSa/s Oscilloscope and 10kHz Signal Generator 13 types of signal
- Languages: Chinese/English



**DST-210**



**DST-201**



**13 types Waveforms**

## TECHNICAL SPECIFICATIONS

## Digital Multimeter

	DST-210	DST-201
Overvoltage Category	CAT IV 600V /CAT III 1000V	
Display Count	20000	
DC Voltage (V)	1.9999V / 19.999V / 199.99V / 1000V Accuracy: $\pm(0.5\%+3)$	
AC Voltage (V)	1.9999V / 19.999V / 199.99V / 750.0V Accuracy: $\pm(1\%+3)$	
DC Current (A)	19.999mA / 199.99mA / 1.9999A / 9.999A Accuracy: $\pm(1.2\%+3)$	
AC current (A)	19.999mA / 199.99mA / 1.9999A / 9.999A Accuracy: $\pm(1.5\%+3)$	
Resistance ( $\Omega$ )	19.999M $\Omega$ / 1.9999M $\Omega$ / 199.99K $\Omega$ / 19.999K $\Omega$ Accuracy: $\pm(0.5\%+3)$ 1.9999K $\Omega$ /199.99 $\Omega$ Accuracy: $\pm(2.0\%+3)$	
Capacitance (F)	999.9uF/99.99uF/9.999uF/999.9nF/99.99nF/9.999nF Accuracy: $\pm(2.0\%+5)$ 9.999mF/99.99mF Accuracy: $\pm(5.0\%+20)$	
Frequency (Hz)	9.999MHz/999.9KHz/99.99KHz/9.999KHz/999.99Hz/99.99Hz/9.999Hz Accuracy: $\pm(0.1\%+2)$	
Temperature ( $^{\circ}$ C)	(-55~1300 $^{\circ}$ C)/(-67~2372 $^{\circ}$ F) Accuracy: $\pm(2.5\%+5)$	
Diode	✓	
Continuity Test	✓	
Live	✓	

## Oscilloscope

	DST-210	DST-201
Bandwidth	10MHz	1MHz
Channels	1CH	1CH
Sampling Rate	48MSa/s	5MSa/s
Time Base Scale	50ns/div~20s/div	500ns/div~20s/div
Vertical Sensitivity	10mV/div~10V/div(x1)	
Input Impedance	1M $\Omega$	
Trigger Types	Auto/Normal/Single	
Auto Measurements	Max, Min, Avg, RMS, VPP, Amp, Freq, Period, Duty Cycle, Width; 10 types	

## Waveform Generator

	DST-210	DST-201
Max frequency	50KHz	10KHz
Channels	1CH	
Waveform Amplitude	0.1V-3V	
Square Duty Cycle	0-100% (Square & Sawtooth adjustable)	
Waveforms	sine wave, square wave, sawtooth wave, half wave, full wave, ladder wave, anti-ladder wave, exponential rise, exponential fall, DC, multitone, sinc pulse, lorentz wave, 13 types	

## GENERAL CHARACTERISTICS

	DST-210	DST-201
Product Color	Black&Blue	
Product Net Weight	298g	
Product Size	177*87.5*34.5mm	
Standard Carton	56*47.5*22cm	
Display	2.8-inch TFT high-definition color screen	
Carton Gross Weight	16.8kg	
Battery	3.7V/3000mAh lithium battery, Standby time 15 hours	
Quantity Per Carton	25PCS	

**INTRODUCTION**

The TDM-120P is a 2-in-1 thermal imager and 20000-count digital multimeter, designed for electricians, maintenance engineers, and technicians who need to quickly and safely identify electrical issues. By combining voltage, resistance, and temperature measurements with advanced thermal imaging, it helps users detect overheating areas, loose wires, uneven power loads, worn or damaged parts, and overcurrent without manual inspection. An auto-tracking function highlights the center point of high and low temperatures for faster heat source location, making troubleshooting more efficient, precise, and safer. Lightweight and portable, the TDM-120P streamlines field diagnostics and maintenance work.

**FEATURES**

- 2-in-1 digital multimeter with built-in thermal imager
- 20000-count meter for versatile electrical measurements: voltage, current, resistance, capacitance, diode testing, etc.
- Auto tracking of center point
- High/low temperature alarm
- 32GB image storage
- 2.8-inch LCD touchscreen with a 90° flip-out stand
- Languages: English/Chinese



**TDM-120P**



**TDM-120**



**Seven color palettes Show every detail clearly**

**2.8-inch LCD Touchscreen Tap to Control Easily**

<b>Color Palette Options</b>							
<b>Measurement Modes</b>							

**[Application Scenarios]**

**[One-Click Save] Easily Export via USB**  
Quickly transfer to your PC—fast and hassle-free.

Image Transfer Firmware Updates

**TECHNICAL SPECIFICATIONS**

Digital Multimeter (TDM-120P Supported)			
Overvoltage Category	CAT III 1000V	Display Count	20000
DC Voltage (V)	1.9999V/19.999V/199.99V/1000V Accuracy: $\pm(0.5\%+3)$	AC Voltage (V)	1.9999V/19.999V/199.99V/ 750.0V Accuracy: $\pm(1\%+3)$
Resistance ( $\Omega$ )	19.999K $\Omega$ /199.99K $\Omega$ /1.9999M $\Omega$ /19.999M $\Omega$ Accuracy: $\pm(0.5\%+3)$ 199.99 $\Omega$ /1.9999K $\Omega$ Accuracy: $\pm(2.0\%+3)$		
Capacitance (F)	999.9 $\mu$ F/99.99 $\mu$ F/9.999 $\mu$ F/999.9nF/99.99nF/9.999nF Accuracy: $\pm(2.0\%+5)$ 9.999mF/99.99mF Accuracy: $\pm(5.0\%+20)$		
Diode	✓		
Continuity	✓		
Thermal Imager			
IR Resolution	120*90	Field of View	50°
Temperature	-20°C~400°C	Thermal Sensitivity	<60mk
Frame Rate	$\leq 25$ Hz	Spectral Range	8 $\mu$ m~14 $\mu$ m
Accuracy	$\pm 2^\circ\text{C}$ or $\pm 2\%$ (max value measured)	Emissivity	0.01-1 adjustable
Detection Distance	0.5~3 m	Image Storage	32 G
Temperature Display	Center point, high/low temperature auto-tracking	Color Palette	Arctic / Hot Iron / Iron Red / Rainbow / Lava / Black Hot / White Hot
High/Low Temperature Alarm	✓		

**GENERAL CHARACTERISTICS**

	TDM-120P	TDM-120
Product Net Weight	216g	203g
Carton Gross Weight	18 kg	14.5 kg
Display	2.8-inch touchscreen	
Battery	3.7V/1500mAh lithium battery	
Product Size	118*78*28 mm	
Product Color	Graphite Grey	
Standard Carton	53*38*30.5 cm	
Quantity Per Carton	40 PCS	

**INTRODUCTION**

The DMT-99 is an intelligent digital multimeter with a wide measurement range and high resolution, ensuring highly accurate readings. It's suitable for various fields such as electronic maintenance, engineering, laboratories, automotive, and home appliances. It contains versatile functions can test continuity, frequency, resistance, capacitor, diodes, temperature, live wires NCV function easily detects AC electromagnetic fields and alerts with a buzzer.

**FEATURES**

- 4-bit digital meter with automatic identification function
- 3 display modes: records, normal and sorting
- Freely customize start-up interface
- 2.4 inch full color TFT screen
- Languages: English/Chinese



**TECHNICAL SPECIFICATIONS**

<b>Overvoltage Category</b>	CAT IV 600V / CAT III 1000V	<b>Display Count</b>	10000
<b>DC Voltage (V)</b>	9.999V/99.99V/999.9V Acc: ±(0.5%+3)	<b>AC Voltage (V)</b>	9.999V/99.99V/750.0V Acc: ±(1%+3)
<b>DC Current (A)</b>	9999uA/99.99mA/999.9mA/9.999A Acc: ±(1.2%+3)	<b>AC Current (A)</b>	9999uA/99.99mA/999.9mA/9.999A Acc: ±(1.5%+3)
<b>Resistance (Ω)</b>	9.999MΩ/999.9KΩ/99.99KΩ/9.999KΩ/999.9Ω Acc: ±(0.5%+3); 99.99MΩ Acc: ±(1.5%+3)		
<b>Capacitance (F)</b>	999.9μF/99.99μF/9.999μF/999.9nF/99.99nF/9.999nF Acc: ±(2.0%+5); 9.999mF/99.99mF Acc: ±(5.0%+20)		
<b>Frequency (Hz)</b>	9.999Hz/99.99Hz/999.9Hz/9.999kHz/99.99kHz/999.9kHz/9.999MHz Acc: ±(0.1%+2)		
<b>Temperature</b>	(-55~1300°C)/(-67~2372°F) Acc: ±(2.5%+5)		
<b>Diode</b>	✓	<b>Continuity Test</b>	✓
<b>NCV</b>	✓	<b>Live</b>	✓

**GENERAL CHARACTERISTICS**

<b>Product Color</b>	Blue & Black	<b>Product Net weight</b>	185g
<b>Product Size</b>	155*80*36mm	<b>Standard Carton</b>	62*45*44.5cm
<b>Display</b>	2.4-inch TFT Full Color Screen (240*320)	<b>Carton Gross Weight</b>	21.705kg
<b>Battery</b>	3.7V, 1500mAh, Lithium battery, Standby time 10 hours	<b>Quantity Per Carton</b>	50PCS
<b>Standard Accessories</b>	Main device*1, Multimeter Probe*1, Data Cable*1, Manual*1		

**INTRODUCTION**

The S1 is a handheld large-screen digital display smart multimeter. It has the advantages of fast measurement, large screen LCD dual display and lighting. As a multimeter and it conforms to overvoltage standard CAT III 1000V, which makes it an excellent choice for professional labs, factories, schools, hobbyists or families, etc.

**FEATURES**

- Large screen LCD
- 10000 count , 4-bit multimeter
- Built in flashlight helpful for operating in the dark
- Languages: English/Chinese



# LARGE SCREEN DIGITAL DISPLAY SMART MULTIMETER



**AC AND  
DC VOLTAGE**



**INTELLIGENT  
ANTI-BURNING**



**AUTOMATIC  
IDENTIFICATION**



**POSITIVE  
RMS**





Large screen digital display smart multimeter

**TECHNICAL SPECIFICATIONS**

<b>Overvoltage Category</b>	CAT III 1000V	<b>Display Count</b>	10000
<b>DC Voltage (V)</b>	0-1000V ±(0.8%+3); 1000V ±(1.2%+3)	<b>AC Voltage (V)</b>	0-1000V ±(0.8%+3); 1000V ±(1.2%+3)
<b>Resistance (Ω)</b>	0-1MΩ ±(0.8%+3) ; 1M-100MΩ ±(1.2%+3)	<b>Capacitance (F)</b>	0-10mF ±(4.5%+5)
<b>Frequency (Hz)</b>	0-10MHz ±(0.1%+3)	<b>Temperature: (°C)</b>	-20°C-0°C ±(5%+4); 1°C-400°C ±(1%+3); 401°C-1000°C ±(2%+5)
<b>Diode</b>	✓	<b>Continuity Test</b>	✓
<b>NCV</b>	✓	<b>Live Wire</b>	✓
<b>On &amp; off Buzzer</b>	✓	<b>Auto Measurement</b>	✓

**GENERAL CHARACTERISTICS**

<b>Product Color</b>	Blue	<b>Product Net Weight</b>	130g
<b>Product Size</b>	143*75*19mm	<b>Standard Carton</b>	63*30.5*41.5cm
<b>Display</b>	Large LCD Screen	<b>Carton Gross Weight</b>	17kg
<b>Product Net Weight</b>	3.7V, 1000mAh, Lithium battery, Standby time 5 hours	<b>Quantity Per Carton</b>	50PCS
<b>Standard Accessories</b>	Main device*1, Multimeter Probe*1, Data Cable*1, Manual*1		

**INTRODUCTION**

The DMC-100 is a 10,000-count intelligent clamp digital multimeter, designed to provide a wide measurement range and high resolution for accurate testing. It delivers precise AC/DC voltage and current measurements and supports comprehensive multimeter testing scenarios through button-adjusting to different gears. Real-time data curve display, data storage, and power measurement mode enhance usability, make it a ideal tool for engineering applications, laboratory use, vehicle maintenance, and household electrical repairs.



**FEATURES**

- 10000 counts clamp digital multimeter
- Continuity and components testing
- Advanced power measurement mode
- Real-time curve display/data storage/auto power off
- Flashlight/NCV



**TECHNICAL SPECIFICATIONS**

<b>Overvoltage Category</b>	CAT III 1000V	<b>Display count</b>	10000
<b>DC Voltage (V)</b>	9.999V/99.99V/999.9V Accuracy: $\pm(0.5\%+3)$	<b>AC voltage (V)</b>	9.999V/99.99V/750.0V Accuracy: $\pm(1\%+3)$
<b>DC Current (A)</b>	99.99A/600.0A Accuracy: $\pm(2.5\%+10)$	<b>AC current (A)</b>	99.99A/600.0A Accuracy: $\pm(2.5\%+10)$
<b>Resistance (<math>\Omega</math>)</b>	99.99M $\Omega$ /9.999M $\Omega$ /999.9K $\Omega$ /99.99K $\Omega$ /9.999K $\Omega$ /999.9 $\Omega$ Accuracy: $\pm(1.5\%+3)$		
<b>Capacitance (F)</b>	999.9 $\mu$ F/99.99 $\mu$ F/9.999 $\mu$ F/999.9nF/99.99nF/9.999nF Accuracy: $\pm(2.0\%+5)$ 9.999mF/99.99mF Accuracy: $\pm(5.0\%+20)$		
<b>Frequency (Hz)</b>	9.999MHz/999.9KHz/99.99KHz/9.999KHz/999.99Hz/99.99Hz/9.999Hz Accuracy: $\pm(0.1\%+2)$		
<b>Temperature (<math>^{\circ}</math>C)</b>	(-55~1300 $^{\circ}$ C)/(-67~2372 $^{\circ}$ F) Accuracy: $\pm(2.5\%+5)$		
<b>Power test</b>	✓	<b>Real-time curve display</b>	✓
<b>Diode</b>	✓	<b>Continuity test</b>	✓
<b>NCV</b>	✓	<b>Live</b>	✓
<b>Flashlight</b>	✓	<b>Data storage</b>	✓

**GENERAL CHARACTERISTICS**

<b>Product Color</b>	Black	<b>Product Net Weight</b>	191g
<b>Product Size</b>	195x74x29 mm	<b>Standard Carton</b>	59.5*45*43.5 cm
<b>Display</b>	2.0 inch full color TFT screen with resolution up to 240*320	<b>Carton Gross Weight</b>	29kg
<b>Battery</b>	3.7V/1500mAh lithium battery	<b>Quantity Per Carton</b>	80 PCS
<b>Standard Accessories</b>	Main device, multimeter probe, type-c charging cable, user manual		



MRT-2050



MRT-1050

INTRODUCTION

MRT-2050 and MRT-1050 are high-performance insulation resistance testers, designed to measure the insulation resistance of electrical equipment, wiring, and insulating materials to ensure safe operation. The testers are widely used in power systems, manufacturing, and construction to detect insulation aging, moisture, or damage. They help prevent electrical hazards and are ideal for testing motors, transformers, switchgear, and cables, ensuring system reliability and long-term equipment performance. As a compact design achieves portability and easy operations, the MRT-2050 and MRT-1050 also calculate the polarization index and absorption ratio, offering multiple safety protections.

FEATURES

- 1999 counts insulation resistance testers
- Supports 100V/250V/500V/1000V/2500V multiple test voltages
- Polarization Index (PI) and Absorption Ratio (DAR) calculation
- Supports timed measurements and has a comparison function
- Multiple safety protections: includes high voltage warning, overload protection, low battery alarm, etc., ensuring safe use
- Languages: English / Chinese



INSULATION RESISTANCE TESTER



2MΩ-50GΩ



DIELECTRIC ABSORPTION RATIO



AUTO COMPARISON FUNCTION




**TECHNICAL SPECIFICATIONS**

		MRT-2050		MRT-1050	
<b>Voltage Output</b>		250V/500V/1000V/2500V (0-20%)		100V/250V/500V/1000V (0-20%)	
<b>Rated Voltage</b>	<b>100V</b>	/		0.1MΩ-200MΩ	±(5%+3bits)
	<b>250V</b>	0.1MΩ-2GΩ	±(5%+3bits)	0.1MΩ-2GΩ	±(5%+3bits)
	<b>500V</b>	0.5MΩ-5GΩ	±(5%+3bits)	0.5MΩ-5GΩ	±(5%+3bits)
	<b>1000V</b>	3MΩ-20GΩ	±(5%+3bits)	3MΩ-20GΩ	±(5%+3bits)
	<b>2500V</b>	5MΩ-200GΩ	±(5%+3bits)	/	
<b>DC Voltage</b>		0-1000V Acc: ±(2%+3bits) Res: 1V			
<b>AC Voltage</b>		30-750V Acc: ±(2%+3bits) Res: 1V			
<b>Short Circuit Current</b>		>1mA			
<b>Overvoltage Category</b>		CAT III 600V			
<b>Display Count (Max)</b>		1999			
<b>Absorption Ratio</b>		✓			
<b>Polarization Index</b>		✓			
<b>Low Battery Alarm</b>		✓			
<b>High Voltage Warning</b>		✓			
<b>Over-range Alarm</b>		✓			
<b>Overload Indicator</b>		✓			

**GENERAL CHARACTERISTICS**

	MRT-2050	MRT-1050
<b>Product Color</b>	Black&Blue	
<b>Product Net Weight</b>	684g	
<b>Product Size</b>	182*124*66mm	
<b>Battery</b>	8*size 5,1.5V Dry Battery / DC12V	
<b>Standard Carton</b>	47.5*46*34.5cm	
<b>Carton Gross Weight</b>	24.38kg	
<b>Quantity Per Carton</b>	20PCS	

**INTRODUCTION**

The SG-003A & SG-004A signal generators are high-performance device aimed at the industrial control industry. The devices are programmable so that can generate various of signals such as voltage, current, pulse waves, thermocouple voltage and thermal resistance. The signal sources can help engineer to simulate industrial control variable like motor anomaly, aging test for magnetic/pneumatic valve, NTC/thermocouple simulation and PLC program debugging, etc.. The 24V output is independent which can be used as 24V power supply and combine to its input ports to be used as loop testing. In addition to above, the device is also a process calibrator, a cost-effective specialized instrument adapting to various working conditions.



SG-003A



SG-004A

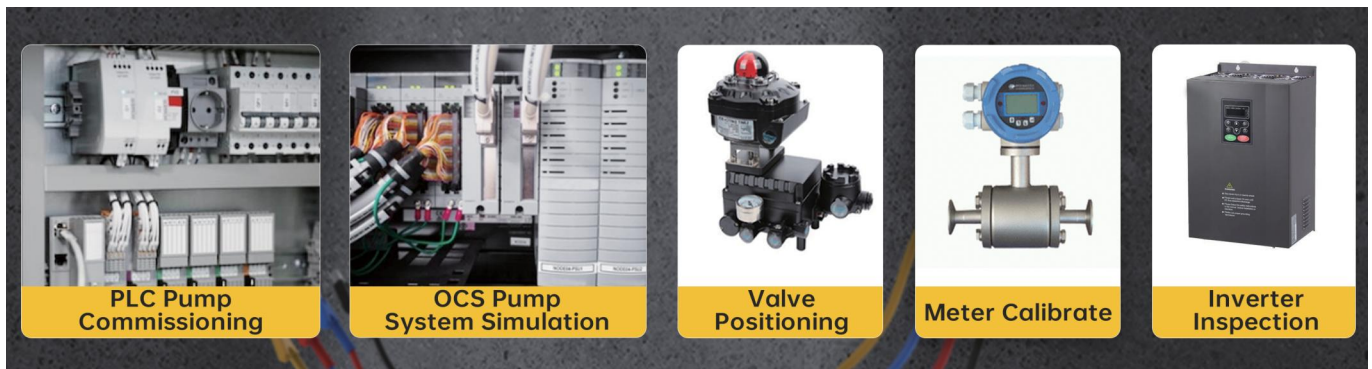
**APPLICATION**



**POCKET SIZE EASY TO TAKE**



**TFT FULL COLOR HD DISPLAY**



**SUITABLE FOR VARIOUS WORKING CONDITIONS**

**FEATURES**

- Provides physical values and scale percentage, the scale is defined by user, which is convenient to diagnosis industrial analog.
- Provides 4 groups preset signal values, which could help user to fast calling preset outputs.
- Converts input signal into output signal, which can be converted between different physical quantities
- Programmable by 3 modes operation: monotonous rise, monotonous fall and cycle
- Able to communicate with configuration software/PLC via RS485.
- Firmware is able to be upgraded by USB.
- 2.4 Inch TFT full color LCD display, with adaptive real-time curve display technology to help user easy to read curve data.
- 3000mAh battery, standby time up to 24 hours.
- Languages: English/Chinese




**TECHNICAL SPECIFICATIONS**

		SG-003A	SG-004A
In-put	Current(mA)	range: 0~24mA $\pm$ (0.1%+0.005); resolution: 0.01mA	
	Voltage(V)	range: 0~30V $\pm$ (0.1%+0.005); resolution: 0.01mV	range: 0~24V $\pm$ (0.1%+0.005); resolution: 0.01mV
	Frequency (Hz)	/	Freq./PWM/RPM/count; 0~10KHz
	Thermocouple (mV)	/	mV: WRE25/26; TC-S/B/K/R/J/T/N
	Thermal resistance ( $\Omega$ )	/	ohm ( $\Omega$ ): Pt100: -200~650°C CU50: -20~150°C RES: 0~390 $\Omega$
Out-put	Current(mA)	Range:0~24mA/4~20mA/0~20mA/ 0~10mA/USER $\pm$ (0.1%+0.005), resolution: 0.01mA; 750 $\Omega$ MAX; Option voltage: 12/24V	Range:0~24mA/4~20mA/0~20mA/ 0~10mA/USER $\pm$ (0.02%+0.003), resolution: 0.001mA; 750 $\Omega$ MAX; Option voltage: 12/24V
	Voltage(V)	Range: 1~5V/0~5V/0~10V/0~24V/ USER $\pm$ (0.1%+0.005); Over-current protection; resolution: 0.01V	Range:1~5V/0~5V/0~10V/0~24V/ USER $\pm$ (0.02%+0.003); Over-current protection; resolution: 0.001V
	XMT(mA)	range: 0~24mA; support percentage scale convert by user	
	Frequency (Hz)	type: Freq./PWM/RPM/counts; range: 0~9999Hz $\pm$ 2%; resolution: 5bits	
	Voltage(24V)	24V with option output: non-volatile memory	
	Thermocouple (mV)	/	mV: WRE25/26; TC-S/B/K/R/J/T/N
	Thermal resistance ( $\Omega$ )	/	ohm ( $\Omega$ ): Pt100: -200~650°C CU50: -20~150°C RES: 0~390 $\Omega$
Preset Values		4 groups values calling via left/right/up/down button	
Programing Type		Monotonous rise, monotonous fall and cycle	
Real-time Curve		Auto Zoom	
MODBUS Slave		Communicate with configuration software or PLC via RS485	
Historical Record		/	30 groups

**GENERAL CHARACTERISTICS**

	SG-003A	SG-004A
Product Color	Blue	
Product Size	112*82*28mm	
Display	2.4-inch TFT Full Color LCD Screen	
Battery	3.7V/3000mAh Lithium battery	
Standard Accessories	Main Device*1, Test Clip*4, Data Cable*1, Charger*1, Manual*1	
Product Net Weight	180g	
Standard Carton	48*45.5*32cm	
Carton Gross Weight	15kg	
Quantity Per Carton	30PCS	

**INTRODUCTION**

The IPS3608 is a regulated power supply that efficiently converts AC to stable DC, provide 0~36V and 0~8A power source, ideal for industrial, laboratory, and professional applications. The primary function is to supply precise and reliable adjustable power for circuit boards, chips, sensors, and other electronic components, fulfilling a range of power requirements such as testing, validation, aging screening, and fault diagnosis in the field of electronic testing and measurement technology. To ensure stable and safe operation, eightfold protection mechanisms have been incorporated. Equipped with a temperature-sensing intelligent cooling system, it ensures stable power delivery with low ripple. It features a 2.8" HD color display screen with a simple and intuitive interface for easy data reading.



**FEATURES**

- DC 0~36V , 0~8A Power Supply
- Real-time voltage & current with VI curve
- Knob with buttons, convenient for parameter adjustment
- Protection thresholds customizable
- Temperature detection and auto fan cooling
- Eightfold Protection: overvoltage, overcurrent, overpower, overtemperature, undervoltage, short circuit, output reverse injection and input reverse connection
- Languages: English/Chinese

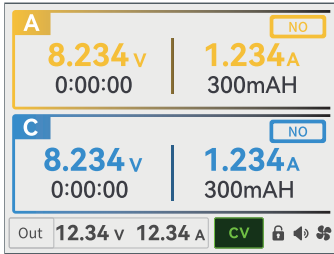


**DC INTELLIGENT POWER SUPPLY**

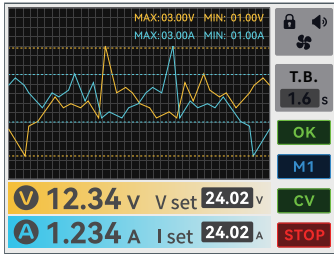
- EIGHTFOLD PROTECTION
- ENCODER ADJUSTMENT KNOB
- DATA GROUP PRESET
- INTELLIGENT COOLING FAN
- HIGH-PRECISION
- DATA LOCK

**36V** MAX Voltage    **8A** MAX Current    **288W** MAX Power

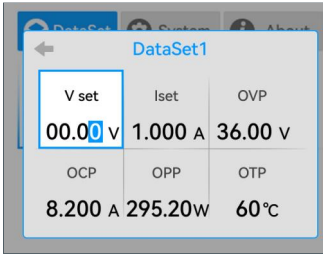




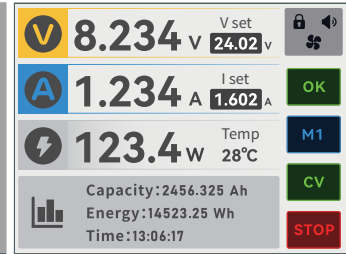
4-digit display



Real-time VI curve



Customize Protection Thresholds



Temperature Detection & Auto Fan Cooling

## TECHNICAL SPECIFICATIONS

Output	Voltage	DC 0~36V
	Current	0~8A
	Power	0~288W
Setting Resolution	Voltage	0.01V
	Current	0.001A
Readback Value Accuracy	Voltage	±(0.3%+3 bits)
	Current	±(0.15%+5 bits)
Input	AC 100-240V (50/60HZ)	
Output Channels	3	
Output interface	Terminals ± & USB A & Type C	
Operating Environment	-10°C~40°C, 0%~75%RH	
Load Regulation Rate	±(0.2%+2 bits)	
Cooling Solution	Automatic fan activation triggered by temperature detection	
8 Major Protections	Overvoltage	0~36V
	Overcurrent	0~8.2A
	Overpower	0W~295.2W
	Overtemperature	0~99°C
	Undervoltage	0~36V
	Short circuit	✓
	Output reverse injection	✓
	Input reverse connection	✓

## GENERAL CHARACTERISTICS

Display	2.8-inch Color Screen
Product Color	Black&Grey
Product Net Weight	1539g
Product Size	138*214*115mm
Standard Carton	60*54*31cm
Carton Gross Weight	23.4kg
Quantity Per Carton	12PCS

**INTRODUCTION**

The DPS150 is a high-performance programmable DC power supply with a Type-C input interface and multiple power modes. It allows precise adjustment of output voltage 0-30V and current 0-5A . This power supply is efficient, stable, low-consumption, with safety features including overvoltage, overcurrent, overload, overheating, and reverse connection protection. It's ideal for electronics engineers for power tests in new product development, for diagnosing and repairing electronic devices, and as a teaching tool in electronic and electrical engineering labs etc..

**FEATURES**

- Output DC voltage(0-30V)/current(0-5A)
- Multiple safety protection
- Supports PC host software
- 2.8-inch colorful screen
- Portable and exquisite



**Programmable DC Power Supply**

PD/OC/DC IN-PUT CV & CC OUT-PUT

2.8-inch HD full color display Eight Major Protection

**30V** **5A** **150W**

**MAX Voltage** **MAX Current** **MAX Power**

**8 Major Protection**

**Multiple Safety Protections**

- Overvoltage Protection
- Undervoltage Protection
- Overtemperature Protection
- Output Reverse Polarity Protection
- Overcurrent Protection
- Overpower Protection
- Input Reverse Polarity Protection
- Short Circuit Protection

**Stable Output**

**Ultra-Low Ripple**

Stable output voltage with no overshoot, supports powering sensitive equipment. Power ripple as low as 20mV ensures efficient and stable output

**PC Control Software**

**Programmable**

The control software includes basic and advanced functions and supports firmware upgrades

**Basic Functions:** Numerical Display, Curve Recording and Preset Groups etc..

**Advanced Functions:** Sequence Output, Voltage Sweep and Current Sweep etc..

**TECHNICAL SPECIFICATIONS**

Input	Voltage	DC5.0V~32V
	Current	100mA~5A
	Note	Supports PD and QC fast charging protocols, power bank
Output	Voltage	0~30V
	Current	0~5A
	Power	0~150W
Set Resolution	Voltage	10mV
	Current	1mA
Readback Value Precision	Input Voltage	$\leq 0.2\% \pm 5\text{mV}$
	Output Voltage	$\leq 0.1\% \pm 10\text{mV}$
	Output Current	$\leq 0.1\% \pm 5\text{mA}$ (0~3.5A)
8 Major Protections	Overvoltage	0V~30.00V
	Overcurrent	0A~5.1A
	Undervoltage	0V~30V
	Overpower	0W~150.00W
	Overtemperature	0°C~99°C
	Reverse Input	✓
	Reverse Output	✓
Short-circuit	✓	
Measurement Switch		On/Off
Load Regulation		0.49%
Full Load Efficiency		96.3%
Operating Environment		0°C~40°C, 0%~75%RH
Style Switching		Regular/Industrial

**GENERAL CHARACTERISTICS**

Product Color	Black & Grey
Product Size	106×76×28mm
Display	2.8 inch HD colorful screen
Standard Accessories	Main device*1, Test Clip*2, Data Cable*1, Manual*1
Product Net Weight	178g
Standard Carton	54*42*37.7cm
Carton Gross Weight	18kg
Quantity Per Carton	40PCS

**INTRODUCTION**

BTM-24 is a multifunctional battery tester, specifically designed for the automotive industry and on-site battery inspection and maintenance. The device provides real-time measurement of battery voltage, starting performance, load capacity, and charging status, delivering a multidimensional assessment of battery health for efficient, accurate, and reliable testing. Equipped with a 2.4-inch high-definition color display, it presents data clearly and allows intuitive operation. Beyond the automotive sector, the BTM-24 is also suitable for battery health measurement in power, telecommunications, industrial equipment, and medical fields, making it an ideal tool for engineers and technical professionals to inspect and solve battery case.



**FEATURES**

- Measure battery voltage 12/24V or electric vehicle battery
- Compatible with CCA,IEC,EN,DIN,JIS#,GB standards
- CCA testing Max 2000A,covering types of car batteries
- Support 4-mode measurement,battery health,start-up,loading and charging
- Display real-time dynamic voltage and life time percentage
- Language: English / Chinese

**BTM-24 2000A CCA**

## Multi-Function 12V&24V Car Battery Tester

Voltage Test

Load Test

Internal Resistance

Rating CCA

State of Charge

State of Health



**TECHNICAL SPECIFICATIONS**

<b>Voltage Range</b>	9-35V	<b>CCA Range</b>	0-2000A
<b>Battery Types</b>	VRLA, GEL, AGM, EFB	<b>Supported Standards</b>	CCA, IEC, EN, DIN, JIS#, GB
<b>Battery Life Display</b>	0-60% (Red), 60%-80% (Yellow), 80%-100% (Green)	<b>Battery Waveform Display</b>	✓
<b>Battery Measurement</b>	✓	<b>Cranking Test</b>	✓
<b>Load Test</b>	✓	<b>Charging Test</b>	✓
<b>EV Battery Test</b>	✓	<b>Truck Battery Test</b>	✓

**GENERAL CHARACTERISTICS**

<b>Display</b>	2.4-inch HD Color Display	<b>Product Color</b>	Black & Blue
<b>Product Size</b>	158*53*27 mm	<b>Product Net Weight</b>	328g
<b>Standard Carton</b>	50*44*39 cm	<b>Carton Gross Weight</b>	21.5 kg
<b>Quantity Per Carton</b>	40 PCS	<b>Standard Accessories</b>	Main Device*1, USB Data Cable*1, User Manual*1 and Storage Bag *1

INTRODUCTION

The LPM-10A/B/C are multifunctional wire trackers designed for locating and measuring network cables. They emit signals and use a receiver to trace cable paths, check continuity, and detect faults. These models support automatic identification, cable length measurement, port flashing, wire pairing, and NCV detection, making them ideal for network wiring tasks. With a 2-inch HD color display, testing results are clear and easy to read. Widely used in network wiring, power systems, and communication facilities, they are essential tools for electrical engineering, network maintenance, and equipment management.



FEATURES

- Anti-interference tracking modes
- 10/100/1000Mbps network measurement
- 2" HD color display for clear readings
- Languages: English/Chinese



MULTIFUNCTION CABLE TRACKER

10 Test Functions

- Cable Tracing
- Connector Testing
- Anti-Interference, No Noise
- Cable Pairing
- NCV Detection
- Length Testing
- Network Cable Speed Test
- Port Flashing
- PoE Supply Testing
- Flashlight





## TECHNICAL SPECIFICATIONS

	LPM-10A	LPM-10B	LPM-10C
Network Cable Test	Line alignment		
	Continuity and fault test		
	Error prompt		
Wire Tracing	Line tracing test		
	Anti-interference line tracing test		
Port Flashing	Full/wire pairs		
	Self-negotiating / non-self-negotiating		
Length Measurement	2.5-500m		
POE Test	5-60V		
	Connection Methods: Endspan, Midspan		
	Standards: IEEE 802.3at/af/bt, Non-standard		
Interface Type	RJ45 connector		
Red Light Function	/	Optical power test 10mW	/
Optical Power Meter Function	/	Light wavelength: 580 / 1300 / 1310 / 1490 / 1550 / 1625 (nm)	/
PING Test	/	/	IP connection ping test
IP Scan	/	/	IP scanning
Receiver	Wire Tracing Line alignment NCV Function Headset Function Low Voltage Indication Flashlight function		

## GENERAL CHARACTERISTICS

	LPM-10A	LPM-10B	LPM-10C
Product Color	Black & Grey & Blue		
Display	2.4 inch Color Screen		
Battery	TYPE-C charging / 1500mAh lithium battery powered		
Product Net Weight	186g	187g	187g
Product Size	152*68*31mm	167*68*31mm	152*68*31mm
Carton Gross Weight	20.82kg	20.86kg	20.86kg
Standard Carton	54*48*28.5cm		
Quantity Per Carton	40PCS		

INTRODUCTION

TSG6020 and TSG3020 are high-performance dual-channel function generators designed for engineers who require accurate, stable, and flexible signal output. With output frequencies up to 60 MHz / 30 MHz and amplitudes up to 20 Vpp, they meet the demands of motor simulation, PLC debugging, sensor emulation, and electronic testing. Powered by a 200 MSa/s sampling rate and 14-bit resolution, and enhanced by ZeroSurge and VeriPoint technologies, they deliver low-jitter, high-precision waveforms across standard and arbitrary signal types. A built-in 7-digit TTL-compatible frequency counter and an intuitive 4.3-inch TFT touchscreen ensure efficient operation and a smooth user experience in both laboratory and industrial test environments.



FEATURES

- Dual-channel output, max frequency 60 MHz / 30 MHz, max amplitude 20 Vpp
- 200 MSa/s sampling rate, 14-bit vertical resolution
- Supports sine, square, pulse, ramp, noise, DC, and arbitrary waveforms
- ZeroSurge and VeriPoint technologies for low-jitter, high-fidelity waveforms
- Switchable DDS / point-by-point output modes
- Provides 7-digit high-precision frequency counter functionality, supporting TTL signals
- 4.3-inch high-resolution TFT color display with 90° rotation, dual operation via keypad and touchscreen
- USB Device for remote control and waveform transfer; Type-C power input supports portable power supply
- Languages: English / Chinese



TSG3020



TSG6020

TSG3020/6020

**2 CH • 200MSa/s  
Function Signal Generator**

4.3" TFT-LCD Touchscreen	30/60MHz Frequency Output	Arbitrary Waveform Output
7-Digit Frequency Counter	6 Modulation Functions	Sweep Function

**14 Bits**

## ZeroSurge + VeriPoint Innovation Technology

Built on traditional DDS, these technologies overcome DDS limitations in pulse and arbitrary waveform output

Rise: 14.07ns  
Fall: 14.08ns  
Freq: 5.002198814

**ZeroSurge Technology**

- Minimizes overshoot in square, pulse & ramp waveforms
- Faster edges, higher precision
- Adjustable duty cycle, pulse width & symmetry

**VeriPoint Technology**

- Point-by-point arbitrary waveform output
- Ultra-fast sampling: 1µSa/s ~ 200MSa/s
- 4Kpts low-jitter waveform, full detail retention



**TECHNICAL SPECIFICATIONS**

Arbitrary Waveform Generator		
	TSG6020	TSG3020
Max Frequency	60 MHz	30 MHz
Channels	2CH	
Sample Rate	200 MSa/s	
Vertical Resolution	14-bit (including sign)	
Frequency Resolution	1 μHz	
Amplitude	2 mVpp ~ 20 Vpp (High-Z, <10 MHz) / 2 mVpp ~ 10 Vpp (High-Z, >10 MHz) 1 mVpp ~ 10 Vpp (50 Ω, <10 MHz) / 1 mVpp ~ 5 Vpp (50 Ω, >10 MHz)	
Offset	High-Z: -9.999V~9.999V	
Output Waveforms	Sine, Square, Ramp, Pulse, Triangle, Noise, DC, Arbitrary	
Memory Depth	4 kpts	
Non-Volatile Storage	24 Waveforms	
THD	<0.2% (Sine, DC ~ 20 kHz, 1 Vpp)	
Amplitude Flatness (relative to 1 kHz sine, 1 Vpp / 50 Ω)	Typical (Sine, 2.0 Vpp) ≤100kHz: ±0.1dB , ≤20MHz: ±0.3dB ≤30MHz: ±0.5dB , ≤40MHz: ±0.6dB , ≤60MHz: ±0.8dB	
Rise / Fall Time	<20ns (typical)	
Duty Cycle	0.01% ~ 99.99% adjustable (Square)	
Accuracy (1 kHz Sine)	±(Set Value × 5% + 2 mVpp)	
Jitter	DDS Mode: 5 ns ± 150 ps, Point-by-Point Mode: ±150 ps	
Output Impedance	50 Ω (typical)	
Operating Modes	Gated, Continuous, Modulate, Frequency Sweep	
Sweep Types	Linear, Logarithmic	
Modulation Types	AM, FM, PM, FSK, ASK, PSK	
Output Modes	DDS, Point-by-Point	
Interfaces	USB Device, Type-C Power Input	

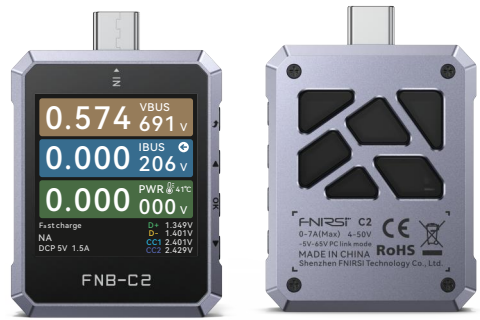
Frequency Counter		
	TSG6020	TSG3020
Input Level	TTL compatible	
Output Frequency Range	100 mHz – 100 MHz	
Accuracy	±51 ppm	
Frequency Resolution	7 digits	
Coupling	DC	

## GENERAL CHARACTERISTICS

	TSG6020	TSG3020
Temperature Range	Operating: 10°C to +40°C ; Storage: -20°C to +60°C	
Humidity Range	Below +35°C: ≤90% RH ; +35°C to +40°C: ≤60% RH	
Altitude	Operating: ≤2000 m ; Non-operating: ≤15000 m	
Display	4.3-inch TFT LCD (480*272)	
Power Supply	DC 5V / 2A	
Power Consumption	< 10 W	
Product Color	Graphite	
Product Size	205*82*123 mm	
Product Net Weight	739g	
Standard Carton	63*34*24.5 cm	
Carton Gross Weight	13.8 kg	
Quantity Per Carton	10 PCS	
Standard Accessories	Main Device*1, Charging Adapter*1, Type-C Charging Cable*1, Data Cable*1, Test Lead Cable*1, Alligator Clips*1, User Guide*1	

**INTRODUCTION**

FNB-C2 Type-C Tester is a high-reliability, high-safety USB voltage and current tester. The device features a 1.54-inch 240×240 high-resolution TFT LCD, delivering clear and intuitive data display. Supporting the PD3.1 protocol, it can measure the voltage, current, and power of USB ports, phone chargers, and portable storage devices, monitor smartphone charging performance and the input/output status of power banks, perform fast-charging trigger tests and observe output ripple, and detect whether Type-C cables contain eMarker chips. The FNB-C2 provides comprehensive measurement and monitoring support for fast-charging devices and USB power sources.



**FEATURES**

- Type-C 1.54" 240×240 high-resolution LCD display
- Supports USB 4 Gen3 with stable high-speed signal transmission
- Real-time monitoring of voltage, current, and power, including energy and consumption statistics
- E-Marker chip detection to identify cable current carrying capacity
- HID interface supporting PC software expansion functions
- Automatic recognition and testing of multiple fast-charging protocols, with PD monitoring for charging compatibility
- Real-time waveform and VBUS curve display
- Languages: Chinese / English



**FNIRSI FNB-C2**

**USB PD3.1 • Type-C Fast Charging Tester**

E-Marker Chip Test & PC Software

20 Bits ADC    50V Max Voltage    6.5A Max Current    240W Max Power

**Auto Detect Multiple Protocols**

Covers PD3.1 EPR & Other Mainstream PD/QC Protocols  
Instantly Detects Fast Charging

**High & Low Ripple Curve Logging**

Real-time Ripple Monitoring for Power Stability and Device Safety

Low-Frequency Ripple

Offline Curve

D+D- Curve

High-Frequency Ripple

**Battery Capacity Test**

10 Data Sets - Auto-Calculates Phone / Tablet / Power Bank Capacities, Detects Fake or Aged Batteries

## TECHNICAL SPECIFICATIONS

Interface	Type-C: USB 4 Gen 3
Current Monitoring	0~6.5A $\pm(0.5\%+2)$ Res:7 digits (0.000001A)
High-Speed Ripple Sampling	20Ksps-2Msps
Low-Speed Sampling	2sps-1Ksps
CC1/CC2 Voltage	0~3.3V $\pm(1.0\%+2)$ ; Res:0.001V
Energy Consumption	0~9999.99Wh; Res:0.00001Wh
Screen Rotation	4 Directions
Auto Protocol Detection	UFCS/PD2.0、PD3.0/QC2.0/QC3.0/QC4、QC5/FCP/SCP/AFC/VFCP/VOOC/SVOOC1.0/SVOOC2.0/APPLE/BC12/MTK
Auto Scan	VOOC/SVOOC1.0/SVOOC2.0/MTK
Energy Statistics	✓
Real-Time Curve	✓
Voltage Monitoring	4~50V $\pm(0.2\%+2)$ Res:7 digits (0.000001V)
Power Monitoring	0~240W $\pm(0.5\%+2)$ Res:7 digits (0.000001W)
HF Ripple Bandwidth	10 kHz ~ 1 MHz
D+/D- Voltage	0~3.3V $\pm(1.0\%+2)$ ; Res:0.001V
Capacity	0~9999.99Ah; Res:0.00001Ah
Recording Time	9h; Res:1s
Temp Monitoring	°C $\pm(1.2\%+3)$
Protocol Trigger	PD2.0、PD3.0、PPS、EPR/QC2.0/QC3.0 /AFC/FCP/SCP/VFCP/UFCS/VOOC/SVOOC1.0/SVOOC2.0
Battery Capacity Calculation	✓
Cable Simulation	✓
PC Connectivity	✓

## GENERAL CHARACTERISTICS

Display	1.54" TFT LCD (240*240)	Product Color	Silver & Black
Product Size	53*36*10 mm	Product Net Weight	25g
Standard Carton	46.5*39*20.5 cm	Carton Gross Weight	14.25kg
Quantity Per Carton	200 PCS		

**INTRODUCTION**

The FNAC28 & FNB48P & FNB58 are fast charging protocol detector and triggers with cool metal shells. It specializes in verifying the fast charging capabilities of different chargers, monitoring real-time charging situation with accurate voltage, current, power data, as well as simulating various protocols to supply relevant power to charge electronics which need particular power.



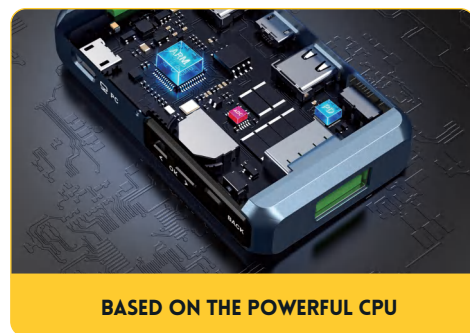
**FNAC28**

**FNB48P**

**FNB58**

**FEATURES**

- Metallic texture
- Fast transmission USB3.1 Gen2
- External 16-bit ADC/PD protocol physical chip
- Bluetooth APP/PC Host
- Automatic protocol detection
- Abundant protocols trigger
- Languages: English/Chinese



# USB FAST CHARGE TESTER

**MULTIPLE PROTOCOLS MEASUREMENT**

**COMPATIBLE WITH USB-A & TYPE-C**

**REAL-TIME MONITORING VOLTAGE & CURRENT**

**HIGH PRECISION**

USB Fast charge tester

**TECHNICAL SPECIFICATIONS**

	FNAC28	FNB48P	FNB48P BT	FNB58	FNB58 BT
Bluetooth	/	/	✓	/	✓
Transmission rate	USB A: USB2.0; Type C: USB3.1 Gen2	USB A: USB2.0; Type C: USB3.1 Gen2		USB A: USB2.0; Type C: USB3.1 Gen2	
Display	1.06-inch HD LCD Screen	1.77" Full-Color TFT LCD Screen		2" TFT LCD Full-Color Screen	
Monitor Voltage	4~24V ±(0.2%+2); 5 bit 0.0001V	4~24V ±(0.2%+2); 6 bit 0.00001V		4~28V ±(0.2%+2) ; 6 bit 0.00001V	
Monitor Current	0~6.5A ±(0.2%+2); 5 bit 0.0001A	0~6.5A ±(0.5%+2); 6 bit 0.00001A		0~7A ±(0.5%+2) ; 6 bit 0.00001A	
Monitor Power	0~156W ±(0.5%+2); 5 bit 0.0001W	0~156W ±(0.5%+2); 6 bit 0.00001W		0~140W ±(0.5%+2); 6 bit 0.00001W	
Hi-speed ripple display	50k -> 3.2M Sa/s	50k -> 3.2M Sa/s		50k -> 4M Sa/s	
Hi-speed ripple bandwidth	320kHz	320kHz		400kHz	
Buzzer	/	/		✓	
Gravity sensing screen	180° Flip	90° Flip			
Low speed ripple display		2sps- > 100sps			
Trigger	QC2.0, QC3.0 / Huawei FCP, SCP / Samsung AFC/VOOC 1.0 / Super VOOC2.0 / VOOC/WARP	QC2.0, QC3.0 / Huawei FCP, SCP / Samsung AFC/VOOC 1.0 / Super VOOC2.0 / VOOC/WARP / PD protocol / PD convert / Packet capture on the PD table			
Load equivalent resistance	/	0~9999.9Ω ±(0.5%+2); resolution: 0.0001Ω			
D+/D- Voltage resolution	0~3.3V ±(1.0%+2); resolution: 0.001V	0~3.3V ±(1.0%+2); resolution: 0.001V			
Capacity calculation	0~9999.99Ah; resolution: 0.00001Ah	0~9999.99Ah; resolution: 0.00001Ah			
Energy used calculation	0~9999.99Wh; resolution: 0.00001Wh	0~9999.99Wh; resolution: 0.00001Wh			
Cable resistance calculation	0~999Ω; resolution: 1Ω	0~9999.9Ω; resolution: 0.0001Ω			
Running time	999hour; resolution: 1s	100days; resolution: 1s			
Record time	99hour; resolution: 1s	100days; resolution: 1s			
Capacity/Energy Statistics	5 Groups	10 Groups			
Battery capacity calculator	/	Default 3.7V, nominal value: 3.0~5V and conversion rate 80-100% adjustable			
Additional capacity	Cable Resistance/Detect DASH Cable/Simulate DASH Cable and APPLE 2.4A	PD Monitor/ Reading DASH cable / Simulate DASH cable / Supports Apple 2.4A acceleration / Tests E-marker cables/Cable resistance			
Input port	Dual male: USB A / Type C	Male: USB A & Dual female: Type C / micro USB			
Output port	Female: USB A / Type C	USB A female / Type C female			
Device temperature monitor	°C ±(1.2%+3) / °F ±(1.2%+4)	°C ±(1.2%+3) / °F ±(1.2%+4)			
PC/host	/		✓		

**GENERAL CHARACTERISTICS**

	FNAC28	FNB48P	FNB48P BT	FNB58	FNB58 BT	
Product Material	Aluminum alloy					
Product Color	black	steel	black	blue	black	grayish blue
Product Size	73×36×12mm		78*39*14mm		82*42*12mm	
Product Net Weight	21g		38g		44g	
Standard Carton	40*36*29.5cm		48*44.5*25cm		48*44.5*25cm	
Carton gross Weight	12kg		19kg		19kg	
Quantity Per Carton	200PCS		200PCS		200 PCS	

**INTRODUCTION**

The HRM-10 is a handheld precision instrument specifically designed to measure the internal resistance of batteries. It is widely used in battery production, maintenance, and quality testing. By measuring the internal resistance, you can effectively assess the health and performance of batteries, identify potential issues, and ensure the reliable operation of your equipment.

**FEATURES**

- Automatic sorting with 8 groups threshold value
- Measuring range: 0~100V & 0~200Ω
- Support history records exported
- Languages: English/Chinese



# HIGH-PRECISION INTERNAL RESISTANCE TESTER



**HIGH MEASUREMENT ACCURACY**



**TABULAR DATA EXPORT**



**AUTO EVALUATE MEASUREMENT RESULTS**



**8 THRESHOLD SETTING**



High-precision internal resistance tester

**TECHNICAL SPECIFICATIONS**

<b>Voltage Range</b>	Auto/1V/10V/100V ±0.5% ; 5 bit digit		
<b>Resistance Range</b>	Auto/20mΩ/200mΩ/2Ω/20Ω/200Ω ±0.5%;5 bit digit		
<b>Range Mode</b>	Auto and Manual (resistance/voltage)		
<b>Sorting</b>	Automatic sorting; 8 groups threshold value		
<b>History Records</b>	✓	<b>Voltage Calibration</b>	✓
<b>Data Export</b>	✓	<b>Resistance Calibration</b>	✓
<b>Buzzer</b>	✓ ; pass and fail		

**GENERAL CHARACTERISTICS**

<b>Battery</b>	3.7V/1000mAh lithium battery	<b>Standard Carton</b>	63*38*44.5cm
<b>Product Net Weight</b>	225g	<b>Carton Gross Weight</b>	23.8kg
<b>Product Size</b>	158.7×80.5×28.4mm	<b>Quantity Per Carton</b>	50PCS

INTRODUCTION

The LCR-P1 is a high-precision, multi-functional transistor tester. It simplifies the testing and analysis of semiconductor components such as transistors, diodes, triacs, and field-effect transistors (FETs), rapidly and automatically recognizes performance conditions and detailed parameters. It is a portable and smart device can help electronic engineers, technicians, and electronics enthusiasts streamline operations and boosts testing efficiency.

FEATURES

- Fast testing with high precision
- Support to test types of components
- Auto recognize component Types and Pins
- 1.44-inch PPI colorful screen
- 300mAh lithium battery
- Portable and exquisite
- Languages: English /Chinese



**Multi-Function LCR Tester**

- FET, SCR, BJT
- Infrared Decoding
- Capacitor
- Resistor
- Inductor
- Diode

Anti Burning

**High-Precision Component Testing**

1. Automatically identifies and measures various transistors, including NPN and PNP BJTs, N-channel and P-channel FETs, junction FETs, diodes, dual diodes, SCRs, as well as resistors and inductors.
2. Automatically detects pin configuration

TECHNICAL SPECIFICATIONS

Type	Range
Triode	$10 < \beta < 600$
Diode	Forward voltage drop $< 4.5V$
Zenor diode	0.01-4.5V 0.01-32V
Field-Effect Transistor(FET)	JFET IGBT MIOSTET
Unidirectional SCR/Bidirectional SCR	Turn-on voltage $< 5V$ , gate trigger current $< 6mA$
Capacitor	25pF~100mF
Resistance	0.01Ω-50MΩ
Inductor	10uH-1000uH
Battery	0.1-4.5V
Infrared Remote Control Decoding	NEC protocol infrared code

GENERAL CHARACTERISTICS

Product Color	Blue & Black	Product Net Weight	79g
Product Size	71×87×28mm	Standard Carton	47*44.5*24cm
Display	1.44 inch colorful screen	Carton Gross Weight	15.1kg
Battery	3.7V, 300mAh Lithium battery	Quantity Per Carton	100PCS
Standard Accessories	Main device*1, Test hook*3, Replaceable Test Board*1, Data Cable*1, Manual*1		

**INTRODUCTION**

The LC1020E is a portable LCR Bridge Tester designed for laboratories, production lines, and field maintenance. It supports multi-parameter measurements (L/Q, C/D, R/D) with selectable series or parallel analysis, enabling rapid evaluation of component performance. Batch testing is made easy with audio-visual alerts for instant feedback. Supporting frequencies up to 100 kHz, it provides highly accurate measurements of inductors, capacitors, and resistors. Real-time data recording & data hold make it adaptable to a variety of scenarios. The 2.8-inch TFT color display delivers clear, easy-to-read data, while long battery endurance ensure reliable testing anywhere. Combining precision, portability, and ease of use, the LC1020E is an ideal testing solution for engineers, technicians, and electronics enthusiasts.

**FEATURES**

- Multi-parameter Meas. (L/Q, C/D, R/D) with selectable mode series & parallel
- Wide frequency range: 100 Hz–100 kHz, RMS levels:0.1V/0.3V/0.6V
- Supports open/short calibration to compensate for fixture and lead effects
- High-precision measurement, 0.3% accuracy
- 0.1%–99.9% tolerance setting with automatic pass/fail judgment of components
- Real-time data recording & data hold, adaptable to a variety of scenarios.
- Supports automatic sleep mode for energy saving.
- Languages: English / Chinese



**Frequency & RMS Test Level Multi-Range Selectable**

Offers 5 test frequencies and 3 RMS voltage levels for precise and versatile measurements.



TECHNICAL SPECIFICATIONS			
Test Frequency	100Hz/120Hz/1KHz/10KHz/100KHz	Basic Accuracy	0.3%
Display Digits	Main/Secondary Parameter: 4.5 Digits	Measurement Parameters	Main Parameter: AUTO/R/C/L/Z Secondary Parameter: X/D/Q/theta/ESR
Measurement Range	L: 0-100H, C: 0-100mF, R: 0-10M	Measurement Speed	4/s (Fast), 2/s (Medium), 1/s (Slow)
Internal Bias	0.0V / 0.5V	Test Level	0.1V / 0.3V / 0.6V
Calibration Functions	Open Circuit Calibration Short Circuit Calibration	Test Terminal Configuration	Three-terminal, Five-terminal
Output Impedance	100Ω	Communication Interface	USB-TypeC (Virtual Serial Port)
Comparison Function	✓	Record Function	✓
Data Hold	✓	Audio-Visual Alert	✓
Auto-Off	✓	Brightness Adjustment	✓

GENERAL CHARACTERISTICS			
Battery	3.7V/3000mAh lithium battery	Display	2.8-inch TFT LCD display
Product Color	Black & Blue	Product Size	185*85*35mm
Product Net Weight	299g	Standard Carton	42.5*42*28.5cm
Carton Gross Weight	15.1kg	Quantity Per Carton	20 PCS
Standard Accessories	Main Device*1, Data Cable*1, Shorting Plate*1, Kelvin Test Clip*1, Test Leads (Black&Red)*1, User Manual*1		

**INTRODUCTION**

The LCR-ST2 and LCR-ST1 are portable tweezer-type LCR meters for engineers, R&D staff, and lab technicians needing precise testing in tight spaces. They accurately measure resistance, capacitance, inductance, diodes, and voltages up to 30V, with multiple frequencies and full-band scanning for fast analysis.

Both have HD display showing real-time data clearly. Especially, the LCR-ST2 adds intelligent sorting, dual-mode display, frequency sweep, and calibration functions. Both are lightweight and ergonomic, suitable for one-handed operation, makes them ideal choices for on-site, R&D, and lab use.



LCR-ST2

LCR-ST1

**FEATURES**

- Precision tweezer design for small components/SMD; optional Kelvin clips for plug-in testing
- Fast, high-accuracy measurement of resistance, capacitance, inductance, diodes, and voltage
- Supports a wide range of component types
- Intelligent sorting for improved batch testing efficiency
- Series and parallel dual-mode display for intuitive comparison
- HD color screen with clear, easy-to-read data
- 300mAh Li-ion battery for long-lasting operation

**100K LCR/ESR Meter Smart Tweezer LCR-ST2**

≤0.7V    1μH-10H  
 ±30V    Continuity  
 1pF-22mF    10mΩ-10MΩ

- ✓ Sorting & Scan
- ✓ Auto/R/C/L/Z/X/D/Q/θ
- ✓ ±30V DC Measurement
- ✓ Series / Parallel Equivalent

**Intelligent Sorting & Comparison**

Preset Component Reference Values  
Auto Pass / Fail Determination  
Improved Batch Testing Efficiency

**LCR/ESR METER (SMART TWEEZERS)**

Resistance    Capacitance    Inductance  
Diode    Continuity    Accuracy & Fast

0.3V-0.6V RMS test level  
 100-100kHz test frequency  
 D/Q/Z/X value measurement

**Full Coverage Frequency Testing**

Supports 100Hz, 120Hz, 1kHz, 10kHz, and 100kHz test frequencies

**TECHNICAL SPECIFICATIONS**

		LCR-ST2				LCR-ST1		
<b>Frequency</b>		100Hz/120Hz	1 kHz	10 kHz	100 kHz	100Hz	1 kHz	10 kHz
<b>Capacitance</b>	<b>1mF-22mF</b>	5%±3	5%±3	/	/	5%±3	5%±3	/
	<b>1μF-1mF</b>	2%±3	2%±3	2%±3	5%±3	2%±3	2%±3	2%±3
	<b>1nF-1μF</b>	2%±3	0.5%±3	0.5%±3	5%±3	2%±3	0.5%±3	0.5%±3
	<b>1pF-1nF</b>	/	2%±3	2%±3	5%±3	/	2%±3	2%±3
<b>Inductance</b>	<b>1H-10H</b>	5%±3	5%±3	/	/	5%±3	5%±3	/
	<b>1mH-1H</b>	2%±3	2%±3	/	/	2%±3	2%±3	2%±3
	<b>10μH-1mH</b>	2%±3	0.5%±3	0.5%±3	5%±3	2%±3	0.5%±3	0.5%±3
	<b>1μH-10μH</b>	/	2%±3	2%±3	5%±3	/	/	2%±3
<b>Resistance</b>	<b>1MΩ-10MΩ</b>	5%±3	5%±3	/	/	5%±3	5%±3	/
	<b>1kΩ-1MΩ</b>	1%±3	0.5%±3	1%±3	/	1%±3	0.5%±3	1%±3
	<b>1Ω-1kΩ</b>	1%±3	0.5%±3	1%±3	5%±3	1%±3	0.5%±3	0.5%±3
	<b>10mΩ-1Ω</b>	2%±3	2%±3	2%±3	5%±3	2%±3	2%±3	2%±3
<b>Voltage</b>	±30V				/			
<b>Diode</b>	Forward Voltage ≤ 0.7V				Forward Voltage < 0.7V			
<b>Measurement Speed</b>	Fast / Slow				/			
<b>Screen Orientation</b>	Auto, Right-Handed, Left-Handed				/			
<b>Frequency Sweep</b>	✓				/			
<b>Intelligent Sorting</b>	✓				/			
<b>Dual-Mode Display</b>	✓				/			
<b>Calibration</b>	✓				/			

**GENERAL CHARACTERISTICS**

	LCR-ST2	LCR-ST1
<b>Display</b>	1.47" HD Color Screen	1.14" HD Color Screen
<b>Battery</b>	3.7V / 300mAh Li-ion battery	3.7V / 250mAh Li-ion battery
<b>Product Color</b>	Black	Black
<b>Product Size</b>	168*28*18 mm	150*29*14 mm
<b>Product Net Weight</b>	61g	44g
<b>Standard Carton</b>	42*40*32 cm	55*39.5*32.5cm
<b>Carton Gross Weight</b>	13.05kg	18.5kg
<b>Quantity Per Carton</b>	50PCS	100PCS
<b>Standard Accessories</b>	Main Device*1, Bag*1, Bent Nozzle *1, Iron Plate*1, Data Cable*1, User Manual*1	Main Device*1, Hook Head(one pair)*1, Magnetic Cable*1, Data Cable*1, User Manual*1

FNIRSI auxiliary tools encompass a variety of high-quality instruments designed to support and enhance various tasks. This series includes:

- **Welding Tools:** Precision for professional and DIY welding projects, ensuring strong and reliable welding results.
- **Home Renovation Tools:** Detection tools for home renovation, providing accuracy and ease of use.
- **Outdoor Tools:** Observation instruments for camping, outdoor adventures, and hunting.
- **Other Tools:** A diverse range of tools to meet various needs, such as paint thickness gauges for sheet metal etc..

The auxiliary tools are dedicated to delivering excellent performance, durability, and convenience, making them indispensable for professionals and enthusiasts.

**Welding Tools**

- DWS-200** 200W/110~250V , 100~450°C soldering station, induction sleep sensor rack, F245/F210 arm, T245/210 iron tips
- SWM-10** Portable handheld spot welding machine, 1200A MAX, Weld Thickness 0.1~0.25mm for Nickel sheet, iron sheet, stainless steel, 3.7V/5000mAh lithium battery
- HS-03** Cordless soldering iron, temperature: 100~450 °C, 5 V/10 W MAX, soldering tips: IS / I / K
- HS02A** Intelligent soldering iron, temperature: 100-450°C support 3 preset, 100W MAX / PD 9~20V, 6 X A type soldering iron tips: K / B / C2 / I / JS / KU
- HS02B** Intelligent soldering iron, temperature: 100-450°C, 100W MAX / PD 9~20V, 3 X B type soldering iron tips: IS / I / K
- HS01** Intelligent soldering iron, temperature: 80-420°C , with 6 x soldering iron tip: BC2 / BC3 / KR / K65 / B2 / ILS, PD plug 65W MAX / 9~20V

**Home Renovation Tools**

- WD-02** Wall detector, max. detection depth 120mm, Non-ferrous metals 100mm, AC wire 50mm, Single-strand copper wire 40mm, Wooden 38mm;with battery 3.7V/300mAh, 3 sensitivity adjustments, TFT HD color screen
- WD-01** Wall detector, max. detection depth 120mm, Non-ferrous metals 100mm, AC wire 50mm, Single-strand copper wire 40mm, Wooden 38mm;with battery 3.7V/300mAh, Electronic ink screen
- IR40** Infrared rangefinder, 0.05~40m measuring range, Resolution1mm, accuracy L x 10<sup>^(-5)</sup> +2mm, laser class II 620~670nm, with battery 3.7V/400mAh

**Outdoor Tools**

- NVS-40** 4K Ultra HD Binocular Night Sight Device, 3.5 inch high-definition IPS screen, 6X electronic zooming, 25mm Objective lens aperture,300m in complete darkness
- NVS-20** 4K Ultra HD Digital Night Sight Device, 1.54 inch high-definition IPS screen, 6X electronic zooming, 25mm Objective lens aperture, 300m in complete darkness

**Other Tools**

- FD10** OBD Diagnostic Tool, supports CAN BUS/K LINE/L INE, Bluetooth V5.1, Software attributes:YMOBD



**INTRODUCTION**

The DWS-200 is a high-power precision soldering station. It is a hand tool commonly used in electronic welding processes. DWS-200 is built in high-power pure copper transformer, adapts to 110-250V voltage input to achieve max 200W fast heating effect. Reaching max 450°C it only costs 2s. It has 3 presets for temperature, which help users rapidly adjust available welding temperature. Inductive sleeping mode makes it durable and energy-saving. With practical functions of fast heating and responses, DWS-200 is positioned as an ideal tool for engineers, electronics major students, maintenance groups and enthusiasts.

**FEATURES**

- Fast heating up in 2s
- Support F245/F210 type handles
- Support 3 preset temperatures
- Precise temperature control
- 110-250V wide voltage input
- Languages: English/Chinese



# 200W HIGH-POWER INTELLIGENT PRECISION SOLDERING STATION



**HIGH POWER  
RAPID HEATING**



**REAL-TIME  
MONITOR POWER  
AND TEMPERATURE**



**INDUCTION  
SLEEP**



**PRESET 3  
TEMPERATURES  
FOR QUICK CALL**



Intelligent soldering station

**TECHNICAL SPECIFICATIONS**

Temperature Range	100-450°C	ESD Protection	✓
Temperature Accuracy	±5°C; 2%	Working Voltage	110~250V
Heat-Up Time	2s melt Tin @ 200W	Input Fuse	3A

**GENERAL CHARACTERISTICS**

Screen	2.4-inch HD color screen	Standard Carton	68*48*27.5cm
Product Net Weight	1505g	Carton Gross Weight	16.5kg
Product Size	156*96*103mm	Quantity Per Carton	10PCS

**INTRODUCTION**

The SWM-10 is a portable handheld spot welding machine that is efficient, convenient and easy to carry. The double pulse spot welding technology is adopted to make the welding more stable and firm, and it also can be used as 5000mAh power bank. According to practical welding requirements, 4 major parameters on color screen can be adjusted to achieve an excellent welding condition. Device also supports single or continuous welding modes.

**FEATURES**



- 4 major parameters adjustable to achieve good welding effect
- Support nickel, iron, stainless steel sheets
- 1200A instant current achieves perfect welding performance
- Single or multiple welding mode adjustable
- Power bank with 5000mAh battery



# PORTABLE INTELLIGENT COLOR SCREEN SPOT WELDING MACHINE



**MULTIPLE SECURITY PROTECTION REMINDERS**



**SPECIAL SPOT WELDING PEN**



**1200A CURRENT DISCHARGE**



**INTELLIGENT ANTI-BURNING**





Portable intelligent color screen spot welding machine

**TECHNICAL SPECIFICATIONS**

<b>Welding Current</b>	1200A MAX	<b>Pulse duration</b>	0~30ms
<b>Welding Materials</b>	Nickel sheet, iron sheet, stainless steel	<b>Pulse Interval Time</b>	0~20ms
<b>Welding Thickness</b>	0.1~0.25mm	<b>Number Of Welds</b>	1, 2, 3, 4, 5
<b>Charging / discharging</b>	5V/2.1A	<b>Screen</b>	1.8-inch TFT color screen

**GENERAL CHARACTERISTICS**

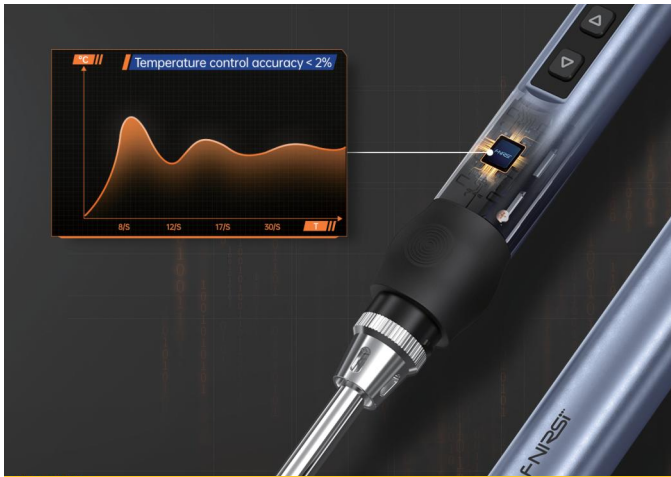
<b>Battery</b>	3.7V / 5000mAh lithium battery	<b>Standard Carton</b>	61.5*35*43.5cm
<b>Product Net Weight</b>	300g	<b>Carton Gross Weight</b>	29kg
<b>Product Size</b>	155*82*29mm	<b>Quantity Per Carton</b>	50PCS

**INTRODUCTION**

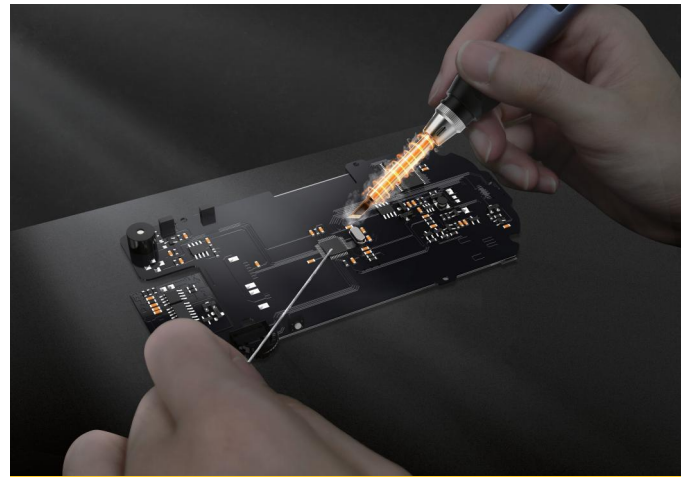
The HS01 & HS02 are intelligent electric soldering iron with fashionable and matte-texture metal shells. They have perfect heating up performance in seconds and portable like a pen with you adapting to types of soldering scenes. They are practical and excellent choices for maintenance groups, tech enthusiasts, college students in electronics field.

**FEATURES**

- Temperature range: 80~450°C
- Fast heating up within 2s
- Precise temperature control 2%
- Comfortable grip with ergonomic design
- Support PD / QC protocols
- Mini size easy to carry



**ACCURACY < 2%**



**INTEGRATED HEAD**



**AUTO SLEEP**



**ESD PROTECTION**

**TECHNICAL SPECIFICATIONS**

	HS01	HS01 M	HS01 F	HS02 A	HS02A F	HS02B	HS02B F
Temperature Range	80~420°C ±5°C; accuracy 2%			100~450°C±5; accuracy 2%; 3 groups preset temperature			
Heat-Up Time	6s melt Tin @ 65W			2s melt Tin @ 100W			
Power	9/12/15/20V, 65W MAX			9/12/15/20V, 100W MAX			
Screen	0.87 inch OLED screen			0.96 IPS HD color sreen			
Color	light blue & black			light blue & dark green			
ESD Protection	/			✓			
Power Input Port	Type C			Type C			
Charging Protocol	PD/QC			PD/QC			

**Charging Accessories**

**65W**  
PD GaN  
Fast Adapter

**100W**  
PD GaN  
Fast Adapter

**250W**  
C2C PD  
Charging  
cable  
(1.2m)

**Iron Tips**

**HS01**

HS01-KR

HS01-K65

HS01-B2

HS01-ILS

HS01-BC2

HS01-BC3

**HS02-A**

HS02A-K

HS02A-KU

HS02A-JS

HS02A-I

HS02A-C2

HS02A-B

**HS02-B**

HS02B-K

HS02B-I

HS02B-IS

**GENERAL CHARACTERISTICS**

	HS01	HS01 M	HS01 F	HS02 A	HS-02A F	HS02B	HS02B F
PD Adaptor	PD 65W	/	PD 65W	/	PD 100W	/	PD 100W
Charging Cable	250W C2C cable	/	250W C2C cable	/	250W C2C cable	/	250W C2C cable
Soldering Iron Tips	BC2	BC2 / BC3 / KR / K65 / B2 / ILS		K / B / C2 / I / JS / KU			IS / I / K
Product Net Weight	53g			60g			
Product Size	183*24*21mm			176*20*16mm			
Standard Carton	52*46.5*44cm			52*46.5*44cm			
Carton gross Weight	18.4kg	11.25kg	20.2kg	17.7kg	34.5kg	14.1kg	30.9kg
Quantity Per Carton	100PCS			50PCS			

## INTRODUCTION

The HS-03 is an intelligent soldering iron with a built-in replaceable battery, featuring a compact design for efficient operation. It offers rapid heat-up and fast temperature recovery, ensuring stable and efficient soldering. The ergonomic design provides a comfortable grip, while precise temperature control delivers accurate and reliable performance. A built-in 0.96-inch high-definition color display shows the working status clearly in real time.

Practical and versatile, the HS-03 is an ideal choice for maintenance professionals, electronics enthusiasts, and students in the electronics field.



## FEATURES

- Temperature range: 100~450°C
- Precise temperature control 2%
- 2000mAh replaceable battery
- Fast 5-Level temperature switching
- Dual corded and cordless modes
- Left or right hand auto-rotating display



# HS-03 ⚡ Wireless Soldering Iron

- 🔄 Replaceable Battery Design
- 🔌 Wired/Wireless Dual Mode
- 📊 5-Level Temperature Control, Fast Adjustment
- 🔋 2000 mAh High-Capacity Battery
- 🔥 450°C High Temperature, Rapid Heating
- 🔧 Quick Recovery Temperature, Ensures Soldering Quality

Soldering in 7 Seconds  
One-Button Standby

**Two-in-One**

Wireless Operation or Use While Charging

Wireless Mode



Wired Mode

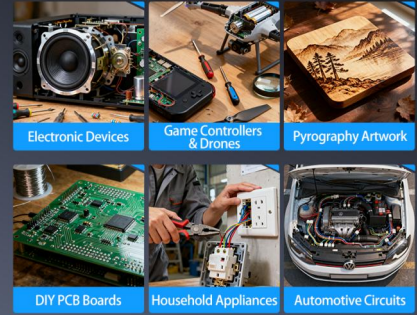


**5-Level [Rotary Knob]**

Fast Temperature Switching Boosts Soldering Efficiency by 30%



**Wide Applications**



**TECHNICAL SPECIFICATIONS**

Temp Range	100-450°C ±5°C, Acc: 2%	
Temp Preset	5 sets	
Heat-Up Time	7s melt Tin @ 10W	
Power	5V, 10W MAX	
Display	0.96-inch IPS HD color display	
Power Input Port	Type C	
Soldering Iron Tips	K / I / IS	Heating Element Resistance: 2.10 Ω
		Tip Length: 6.6 cm
		<p><b>F210-K</b></p>
		<p><b>F210-I</b></p>
		<p><b>F210-IS</b></p>
		<p>Insert / Remove</p>

**GENERAL CHARACTERISTICS**

Color	Matte Metallic Blue
Product Net Weight	137g
Product Size	205*30*20mm
Standard Carton	43*42*20.5cm
Carton Gross Weight	14.65kg
Quantity Per Carton	50PCS

**INTRODUCTION**

The WD-01 & WD-02 are wall detector to solve various problems encountered by users in decoration and drilling. It can detect wooden materials, metals, AC wire, steel bars, copper pipes hidden behind multiple materials like walls, ceilings, gypsum boards and cables etc..

**FEATURES**

- 3 modes for Wood/Metal&Magnetic/AC Cable objects
- Direction and intensity hints
- Circular hole positioning
- Center point buzzer alarm
- Languages: Russian/English/Portuguese/Japanese/Chinese



WD-01



WD-02

# WALL DETECTOR SCANNER



AC



WOOD



METAL



ULTRA-DEEP DETECTION  
UP TO 120MM





Wall Detector Scanner

**TECHNICAL SPECIFICATIONS**

	WD-01	WD-02
Detection Object	Electromagnetic/AC Cable/Wood/Metal	
Ferrous Metals	120mm Max	
Non-ferrous Metals	100mm Max	
AC Cable	50mm Max (220V/@50Hz; 110V/60Hz)	
Single-core Copper Wire	40mm Max ((≥4 square millimeters))	
Wooden Block	20mm Exact Mode /38mm Deep Mode	
Indication Mode	Distance percentage, Light, Beeping freq.,	
Work Temperature	-10~50°C	
Unit Conversion	/	mm/inch
Sensitivity	/	Low/Medium/High 3 options
Display	Electronic ink display	TFT HD color screen
Languages	English/Chinese	English/Russian/Japanese/Portuguese/Chinese

**GENERAL CHARACTERISTICS**

	WD-01	WD-02
Battery	3.7V/300mAh lithium battery, standby time 2 hours	
Product net Weight	123g	
Product Size	138*68*22mm	
Standard Carton	51*42*25.5cm	
Carton Gross Weight	14kg	
Quantity Per Carton	50PCS	

**INTRODUCTION**

The IR40 is an economical smart rangefinder with measuring distances up to 40 meters. It can fast and instantly measure distance,height,area and volume data. Connecting with App by bluetooth,it brings you much more convenient operations for abundant measurement scenes,which is perfect for professionals in construction, forestry, surveying, outdoor sports and house renovation etc..

**FEATURES**

- Bluetooth to connect with Android/IOS mobile
- Automatic calculation of length, area and volume etc.
- 360° gravity sensor screen
- Language:English/Chinese



# TECHNOLOGY CHANGES LIFE, INNOVATION LEADS THE FUTURE!



**±2MM HIGH PRECISION**



**360° GRAVITY SENSOR**



**FRONT AND REAR REFERENCE**



**MOBILE APP INTELLIGENT LINKAGE**

**40M RANGING**



40M Smart Rangefinder

**TECHNICAL SPECIFICATIONS**

<b>Measuring Range</b>	0.05~40m ±(2mm+5×10 <sup>-5</sup> Dmm) ; resolution 1mm		
<b>Advanced Measurement</b>	length, area, volume, Pythagorean for height and arithmetical operation		
<b>Additional Function</b>	Supports connection with mobile through bluetooth, to store, calculate measurement data and supports photo-draw measurement		
<b>Laser Class</b>	Class II; 620~670nm	<b>Two Benchmarks</b>	Front datum and back datum
<b>Measument Time</b>	0.1~3s	<b>Display</b>	1.3-inch HD IPS Screen
<b>Work Temperature</b>	0~40°C	<b>360°Auto Flips</b>	✓
<b>Measument Unit</b>	m / ft / inch	<b>Blue Tooth</b>	✓

**GENERAL CHARACTERISTICS**

<b>Battery</b>	3.7V/400mAh lithium battery (3000 times continuous measurement after fully charged)	<b>Standard Carton</b>	46*33*25cm
<b>Product Net Weight</b>	38g	<b>Carton Gross Weight</b>	12.6kg
<b>Product Size</b>	81*36*20mm	<b>Quantity Per Carton</b>	100PCS

**FNIRSI** | **NVS-40**  
4K Digital Night Vision device

# 4K ULTRA-CLEAR BINOCULAR NIGHT VISION DEVICE



**COMPLETE DARK  
VIEWING  
DISTANCE 300M**



**ADAPTS TO  
DAY AND NIGHT**



**SUPPORT  
PHOTOGRAPHY  
& VIDEOGRAPHY**



**6X ELECTRONIC  
ZOOM**



**4K  
ULTRA HD**



4K Digital Night Vision device



The NVS-20 & NVS-40 are economical night vision devices, which are designed for outdoor enthusiasts and security professionals, balancing performance and affordability. The devices provide clear visibility in complete darkness. The lightweight and durable design makes it easy to carry and use, suitable for camping, night hunting and night-time patrol etc..

**FEATURES**

- 4K extra HD, 6X Zooming adjustable
- 300M reservation distance in darkness
- Adapts to day and night
- Supports photography, videography and playback
- 9 languages



**NVS-20**



**NVS-40**



**GENERAL CHARACTERISTICS**

	NVS-20	NVS-40
Monocular/Binocular	Monocular	Binocular
Magnification	× 6	× 6
Objective Lens Aperture	25mm	25mm
Observe Distance In Low Light	2~∞	2~∞
Field Of View	13°	13°
Observe Distance In Dark	300m MAX	300m MAX
Display	1.54 IPS screen	3.0 IPS screen
Video Pixel	4K(3840*2160)/2K(2560*1440)/ 1080FHD (1920*1080)/ 720P(1280*720)/VGA(640*480)/ QVGA(320*240)	
Video Function	Loop recording 10 mins max; WDR adjustment, Sport capturement, Date label	
Image Resolution Setting	36MP/32MP/30MP/24MP/20MP/16MP/12MP/10MP/8MP/5MP/3MP/VGA	
Image Quality	High-quality, Standard-quality, Economy-quality	
Languages	English/Japanese/English/French/Deutsch/Russian/Portuguese/Spanish/Chinese	
IR Lightness	✓	
Operating Temperature	-5~40°C	
Humidity	0~80%	
Memory Space	32G	

**GENERAL CHARACTERISTICS**

	NVS-20	NVS-40
Battery	3.7V/2000mAh lithium-ion battery	3.7V/2000mAh , lithium-ion battery
Product Net Weight	249g	315g
Product Size	152*42*82mm	153*136*56mm
Standard Carton	60*34.5*49cm	42.5*36*40.5cm
Carton Gross Weight	20.17kg	14.1kg
Quantity Per Carton	50PCS	20PCS

**INTRODUCTION**

The FD10 Bluetooth OBD II diagnostic tool aims to assist with vehicle maintenance for the professional mechanic or a car enthusiast. It can rapidly scan the whole vehicle within 12 core contents which have more than 1000 items, then help users ensure the vehicle is running at its best and catch potential issues before they become obvious problems. It supports wide protocols such as ISO 9141, KWP2000, J1850 PWM, J1850 VPW, and CAN etc.. FD10 is compatible with both Android and iOS devices and utilizes the latest Bluetooth technology for fast and reliable data transmission.

**FEATURES**

- Bluetooth 5.1
- 360° full vehicle deeply scanning
- 8 languages



# CAR DETECTOR

**BLUETOOTH 5.1**

**ANDROID/IOS**

**8 LANGUAGES SUPPORTED**

24°C

Bluetooth V5.1

83.5 Km/L

**TECHNICAL SPECIFICATIONS**

<b>Protocols supported</b>	SAE J1850 PWM, ISO 9141-2, 14230-4 KWP, 15765-4 CAN	<b>Power Consumption</b>	≤1W
<b>Work Voltage</b>	8~28V	<b>Software App</b>	YMOBD
<b>Bluetooth Version</b>	5.1	<b>Operating System</b>	Android / iOS
<b>Diagnostic Functions</b>	Reading and clearing trouble codes / viewing real-time sensor data / performing readiness tests / fuel consumption analysis		

**GENERAL CHARACTERISTICS**

<b>Languages</b>	English/Italian/Japanese/Korea/Russian/Spanish/Hindi/Chinese	<b>Standard Carton</b>	54*32.5*32cm
<b>Product Net Weight</b>	17.6g	<b>Carton Gross Weight</b>	7.3kg
<b>Product Size</b>	50*34*27mm	<b>Quantity Per Carton</b>	200PCS

FNIRSI offers a range of environmental detectors, including radiation detectors, formaldehyde detectors, gas detectors, sound level meters, anemometers, lux meters, Sugar meter, and wood moisture meters.

**Radiation detectors:** Your First Line of Defense Against Radiation.

**Formaldehyde detectors:** Breathe Easy. Detect Formaldehyde Instantly.

**Gas detectors:** Fire Prevention, Early Detection!

**Sound level meters:** Noise Pollution Monitoring, Caring for the Health of Your Family and your employees

**Anemometers:**Track The Wind In Real-Time, Stay Safe And Boost Efficiency

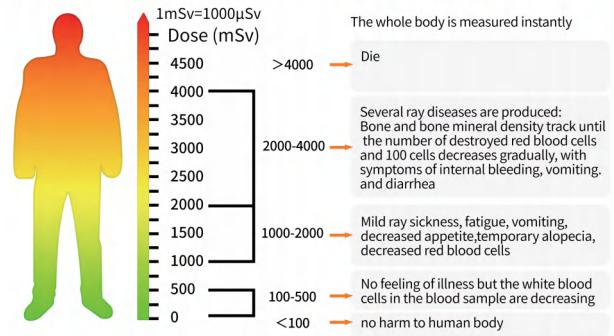
**Lux meters:** Measure Light, Illuminate Accuracy, Enhance Performance

**Wood moisture meters:** Ensure Stable And Consistent Processing, Minimizing Wood Deformation

**Radiation Detector**



**Medical Response To Short Time High Dose Radiation**



International standard:

- Radiological worker: 20mSv/year (10μSv/h)
- General public : 1mSv/year (0.52μSv/h)
- 1μSv/h = 100μR/h; 1uR=1y

**Multiple Types of Environmental Detectors**



Wood Moisture Meter



**WMT-10**  
**Medidor de Umidade de Madeira Indutivo**

Environmental Detector

Type	Model	Application	Range	Other Function
Radiation Detector	※GC-03	Detect $\gamma$ rays, etc. electromagnetic radiation	Nuclear radiation: 0.01 $\mu$ Sv/h-999.99 $\mu$ Sv/h Electric field: 1V/m-1999V/m Magnetic field: 0.01 $\mu$ T-99.99 $\mu$ T	Electromagnetic Radiation Detector
	※GC-02	Detect $\beta$ particles, $\chi$ rays and $\gamma$ rays	Nuclear radiation: 0.01 $\mu$ Sv/h-999.99 $\mu$ Sv/h	/
	※GC-01			
		※ERD-10	Detect electromagnetic radiation	Electric field: 1V/m - 1999V/m Magnetic Field: 0.01 $\mu$ T - 99.99 $\mu$ T
Formaldehyde Detector	※SFD-02	Detect Formaldehyde & TVOC	Formaldehyde:0-2000PPM TVOC:0-10mg/m <sup>3</sup>	Humidity Aldehyde Removal Counter
Gas Detector	※GD-02	Detect methane CH <sub>4</sub> , natural gas, etc.	0~50000ppm (Methane) 0~100%LEL	Temperature & Humidity
Sound Level Meter	※FDM-02	Noise Test	30~130dB, $\pm$ 1.5dB (94dB@1kHz)	Temperature & Humidity
	※FDM-01			
Anemometer	※FAM-02	Wind Speed Test	Wind Speed: 0~30 m/s Temperature: -20~60°C Humidity: 0~99%RH	Temperature & Humidity
Lux Meter	※FPM-02	Illuminance Detection	1000, 9999, 99990LUX	Temperature & Humidity
Wood Moisture Meter	※WMT-10	Detect moisture content of wood & wall	0~75.0%	Temperature
	※WHD-02	Detect moisture content of wood	A: 12.4%~55% B:10.9%~48% C: 1.6%~22.1% D:0.1%~11% E:1.1%~8.7% F: 0.6%~9.9% G: 0.3%~16.6%	7 Moisture Modes Temperature & Humidity

**INTRODUCTION**

The SFD-02 Formaldehyde detector is a compact air quality monitor designed for homes, offices, and newly renovated spaces. It tracks formaldehyde and TVOC levels, humidity in real-time, helping users stay informed about air quality. Ideal for newly renovated environments, it quickly assesses harmful substances in the air to ensure safety. Additionally, it offers a historical data function to review past air quality. With its smart features, the SFD-02 helps maintain clean, safe air, protecting the health of your family and employees.

**FEATURES**

- Real-time monitoring/historical records
- Languages:English/Chinese



**F-NIRSI™ SFD-02**

# FORMALDEHYDE DETECTOR

Air quality level	Range
Excellent	0mg/m <sup>3</sup> -0.08mg/m <sup>3</sup>
Good	0.08mg/m <sup>3</sup> -0.1mg/m <sup>3</sup>
Mild	0.1mg/m <sup>3</sup> -0.2mg/m <sup>3</sup>
Moderate	0.2mg/m <sup>3</sup> -0.3mg/m <sup>3</sup>
Severe	> 0.3mg/m <sup>3</sup>

TVOC

HCHO

HCHO

**TECHNICAL SPECIFICATIONS**

Measuring Range	Formaldehyde:0-2000PPM / TVOC:0-10mg/m <sup>3</sup>		
Resolution	0.001mg/m <sup>3</sup>		
Accuracy	±(5%+50ppm)		
Detection Hardware	Formaldehyde:Electrochemistry / TVOC:Semiconductors		
Preheat Time	Formaldehyde:5S / TVOC:120S		
Historical Records	24hours (Max)		
Real-Time Measurement	✓		
Humidity Detection	5%~99%RH		

**GENERAL CHARACTERISTICS**

Product Color	White	Product Net Weight	196g
Product Size	75*45*95mm	Standard Carton	48.5*30*25cm
Display	2.4-inch tempered glass touch HD color screen	Carton Gross Weight	15kg
Battery	3.7V/1000mAh lithium battery	Quantity Per Carton	50PCS

**INTRODUCTION**

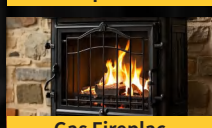
The GD-02 Combustible Gas Detector is specifically designed to detect the presence and concentration of flammable gases such as methane CH<sub>4</sub>, natural gas, and other hydrocarbons in the air. This device is essential for use in residential, commercial, and industrial environments, including gas stations, kitchens, chemical plants, boiler rooms, and underground pipelines areas where gas leakage poses a significant risk. Equipped with a high-sensitivity sensor 0.5s sampling rate, the detector provides real-time monitoring of gas concentrations. When gas levels exceed preset thresholds, it alerts users through audible and visual alarms.

**FEATURES**

- Methane, propane and isobutane gas concentration detection
- Response time (T90) < 5s, (T10) < 10s
- Settable concentration threshold for automatic alarm
- 2-inch high-definition color display
- Languages: English/Chinese



**COMBUSTIBLE GAS DETECTOR**



50000  
0-50000PPM  
DETECT

36CM  
FLEXIBLE PROBE

3 TYPES  
ALARMS

CURVE  
RECORDING

DATA RECORD  
& HOLD

2"  
2" IPS  
COLOR SCREEN

RECHARGEABLE  
LITHIUM BATTERY

°F & °C  
SWITCHING

FLASHLIGHT  
& BACKLIGHT



**TECHNICAL SPECIFICATIONS**

Range	0~50000ppm (Methane), Res: 1ppm	Response Time	T90: <5s
	0~100%LEL, Res: 1%LEL		T10: <10s
Sampling Time	0.5s	Operating Temperature	-10~55°C

**GENERAL CHARACTERISTICS**

Battery	3.7V/1500mAh lithium battery	Display	2-inch Color Screen
Product Size	63*28*18.3mm	Product Color	Black&Blue
Product Net Weight	294g	Standard Carton	62.5*48*23.5cm
Quantity Per Carton	50PCS	Carton Gross Weight	24kg

**INTRODUCTION**

The GC-01 & GC-02 are precise and reliable radiation meters, used to measure for  $\beta$  particles,  $\chi$  rays and  $\gamma$  rays. The devices adopt the technology of Geiger-Miller counter, can provide precise radiation dose measurement and shows comprehensive testing results. It is a necessary assistant for you to perceive radiation dose surrounding when you're in nuclear facilities, medical radiation environments, or handling radioactive materials.

**FEATURES**

- Geiger counter tube precision test
- Detects  $\beta$  particles,  $\chi$  rays and  $\gamma$  rays
- Interconvertible measurement units
- Languages: Chinese/English



GC-01



GC-02



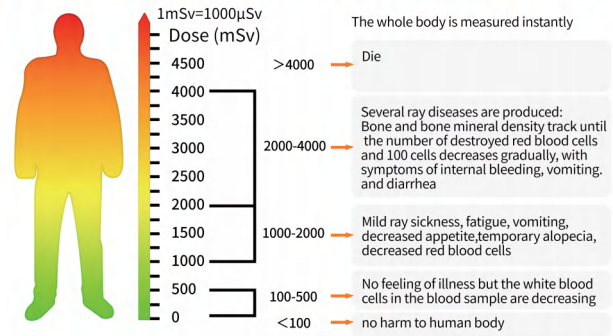
Geiger Counter Tube



Multifunctional Page Real-Time Monitoring



**Medical Response To Short Time High Dose Radiation**



International standard:

- Radiological worker: 20mSv/year (10 $\mu$ Sv/h)
- General public : 1mSv/year (0.52 $\mu$ Sv/h)
- 1 $\mu$ Sv/h = 100 $\mu$ R/h; 1uR=1y

**TECHNICAL SPECIFICATIONS**

	GC-01	GC-02
Ray Types	$\beta$ particles, $\chi$ rays and $\gamma$ rays	$\beta$ particles, $\chi$ rays and $\gamma$ rays
Impulse Dose Rate	0.00-10000 $\mu$ Sv/h(10mSv/h); 5 bit digit	0.00-10000 $\mu$ Sv/h(10mSv/h); 5 bit digit
Dose Accumulation	0.00 $\mu$ Sv-500.0mSv; 5 bit digit	0.00 $\mu$ Sv-500.0mSv; 5 bit digit
Detection Sensitivity	80CPM/ $\mu$ Sv(for Co-60)	80CPM/ $\mu$ Sv(for Co-60)
Sensor	Energy Compensated GM tube (Geiger counter tube)	Energy Compensated GM tube (Geiger counter tube)
Units Of Measurement	$\mu$ Sv/h, $\mu$ Gy/h, mR/h, cps, cpm (interconvertible)	$\mu$ Sv/h, $\mu$ Gy/h, mR/h, cps, cpm (interconvertible)
Energy Range	48keV-15MeV $\leq$ $\pm$ 30%(for 137Cs-)	48keV-15MeV $\leq$ $\pm$ 30%(for 137Cs-)
Display	IPS high-definition LCD screen	1.5-inch IPS high-definition LCD screen
Battery Life	10 hours	6 hours
Monitor Mode	/	10 sets time ranges to record surrounding radiation does.
Auto Sleeping	/	✓
Languages	English/Chinese	English/Deutsch/Japanese/Portuguese/Spanish/Russian/Korean/Chinese
Alarm Method	light, vibration, buzzer	

**GENERAL CHARACTERISTICS**

	GC-01	GC-02
Battery	3.7V/1100 mAh lithium battery	3.7V/850 mAh lithium battery
Product Net Weight	145g	73g
Product Size	123*78*26mm	106.5*44.5*25mm
Standard Carton	47*44.5*41.5cm	53*39*29.5cm
Carton Gross Weight	19.7kg	13.6kg
Quantity Per Carton	80PCS	100PCS

**INTRODUCTION**

The GC-03 is a multifunctional ionizing radiation detector, designed for protection instruments that protect people from harmful invisible threats both nuclear radiation and electromagnetic radiation. It employs advanced Geiger-Miller counter technology, offering high-precision real-time monitoring data. Equipped with a 2.4" HD color screen, it provides clear and easy-to-read data for convenient viewing. Widely used in nuclear power plants, radioactive waste management, medical radiation, environmental monitoring, laboratory research, and industrial safety, it is a key tool for recognizing radiation environments and ensuring the safety.

**FEATURES**

- Ionizing radiation and electromagnetic radiation detection
- Geiger-Miller counter tube precision test
- Alerts and data logging ensure your safety
- Languages: Chinese/English



# MULTIFUNCTIONAL RADIATION DETECTOR

**NUCLEAR & ELECTROMAGNETIC RADIATION**

**GEIGER-MILLER COUNTER TUBE**

**AUDIBLE & VISUAL ALARM**

**SENSITIVITY ADJUSTMENT**

**DATA RECORD**

**AUTOMATIC SHUTDOWN**

**TECHNICAL SPECIFICATIONS**

<b>Range</b>	Nuclear radiation: 0.01μSv/h-999.99μSv/h Acc: 0.01μSv/h	<b>Radiation Type</b>	Ionizing radiation (gamma rays, etc.)
	Electric field: 1V/m-1999V/m Acc: 1V/m	<b>Dose Current Rate</b>	0.00-10000μSv/h (10mSv/h)
	Magnetic field: 0.01μT-99.99μT Acc: 0.01μT	<b>Sensitivity</b>	80CPM/μSv
<b>Cumulative Dose Equivalent</b>	0.00μSv-500.0mSv	<b>Dose Unit</b>	μSv/h, μGy/h, mR/h, CPS, CPM
<b>Detector</b>	Energy compensation GM tube (Gege counter tube)	<b>Alarm Method</b>	light, vibration, buzzer
<b>Energy Range</b>	48keV-1.5MeV ≤ ±30% (for 137Cs-)	<b>Auto Sleeping</b>	✓

**GENERAL CHARACTERISTICS**

<b>Battery</b>	3.7V/1500mAh lithium battery	<b>Display</b>	2.4-inch HD color screen
<b>Product Net Weight</b>	142g	<b>Product Size</b>	140*60*20mm
<b>Standard Carton</b>	52*33*21cm	<b>Carton Gross Weight</b>	12.4kg
<b>Quantity Per Carton</b>	50PCS		

INTRODUCTION

The ERD-10 is an electromagnetic radiation detector. It is widely known that old or damaged household appliances may give off more electromagnetic radiation than normal ones. Using high-power devices, industrial equipment, or living near high-voltage power lines can also raise the risk of EMF exposure. Therefore, the ERD-10 electromagnetic radiation detector is specially designed for use in above scenarios for homes, offices, vehicles, and outdoor environments, helping recognize radiation danger and protect your daily safety. To ensure real-time accuracy, it refreshes data every 0.5 seconds, providing fast and reliable detection of electromagnetic radiation levels.



FEATURES

- 2.4-inch high-definition color display
- 0.5 seconds refresh rate
- Real-time display of the measured values in the curve
- Languages: English/Chinese



# ELECTROMAGNETIC RADIATION DETECTOR



CURVE RECORDING



AUTOMATIC ALARM



ELECTROMAGNETIC FIELD STRENGTH MEASUREMENT



RADIANT POWER MEASURE



REFRESH RATE 0.5S



TECHNICAL SPECIFICATIONS

Parameter	Electric Field	Magnetic Field
Accuracy	1V/m	0.01μT
Range	1V/m - 1999V/m	0.01μT - 99.99μT
Alarm Threshold	40V/m	0.4μT
Power Range of Radiofrequency Radiation	0.2-1000mW/cm <sup>2</sup>	

GENERAL CHARACTERISTICS

Product Color	Black&Blue	Product Net Weight	141g
Product Size	140*70*20mm	Standard Carton	52*43.5*25cm
Display	2.4-inch Colorful Screen	Carton Gross Weight	13.8kg
Battery	1000mAh Lithium battery	Quantity Per Carton	50PCS

**INTRODUCTION**

The FDM-02 & FDM-01 are designed for professionals who demand accurate and reliable sound measurement in different scenes such as monitoring and evaluating noise level of avenue, indoor environment, house improvement, music party venue and mechanical vibrations etc.. These two products are high-cost-performance devices that comply with the IEC651 TYPE 2 / ANSI S1.4 TYPE 2 standards, featuring a wide measurement range and real-time monitoring capabilities.

**FEATURES**

- Standard: IEC651TYPE2 / ANSIS1.4TYPE2
- Sampling rate: 2 times/s
- A (ear)/C (machine) weighting modes
- Languages: English/Chinese

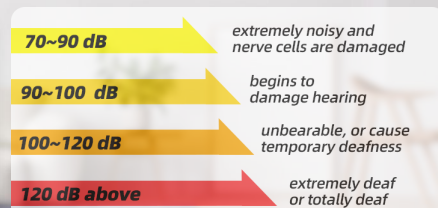
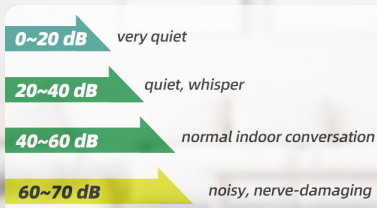


**FDM-01**



**FDM-02**

**SOUND LEVEL METER**



**TECHNICAL SPECIFICATIONS**

	<b>FDM-02</b>	<b>FDM-01</b>
<b>Measuring Range</b>	30~130dB, ±1.5dB (94dB@1kHz); resolution:0.1dB; 4 bit digits	
<b>Sampling Rate</b>	Fast: 0.5 times/second; Slow: 1 time/second	2 times/second
<b>Frequency Range</b>	20Hz-20kHz	31.5HZ~8.5KHz
<b>Frequency Weighting</b>	A&C-weighting	A-weighting
<b>Dynamic Range</b>	3.5dB	3.5dB
<b>Display</b>	2-inch Color screen	1.54-inch IPS screen
<b>Sensitivity</b>	Fast/Slow 2 options	
<b>Alarm Method</b>	Light	
<b>Standard Meet</b>	IEC651TYPE2 / ANSIS1.4TYPE2	

**GENERAL CHARACTERISTICS**

	<b>FDM-02</b>	<b>FDM-01</b>
<b>Battery</b>	3.7V/1500mAh lithium battery	3.7V/600 mAh lithium battery
<b>Product Net Weight</b>	212g	193g
<b>Product Size</b>	63*28*183mm	197*60*30mm
<b>Standard Carton</b>	62.5*48*23.5cm	55*38.5*36.5cm
<b>Carton Gross Weight</b>	19.75kg	16.5kg
<b>Quantity Per Carton</b>	50PCS	50PCS

**INTRODUCTION**

The FAM-02 is a high-precision vane anemometer featuring a compact and efficient design. It integrates wind speed, temperature, and humidity measurement with a dual-display interface. Engineered for reliable performance at an economical price, the device also includes data logging for convenient tracking and analysis. Equipped with a 2" high-definition display, offering both light and dark interface modes, makes it suitable for a wide range of indoor and outdoor environments monitoring. It is ideal for field applications and routine environmental assessments.

**FEATURES**

- 3 in 1 wind Speed & Temperature & Humidity
- Alarm Value Setting notify the user value exceeds
- Real-time monitoring with data logging
- Light and dark theme for easy readability in both indoor and outdoor
- Languages: English/Chinese



# 3 IN 1 DIGITAL ANEMOMETER



**AUTOMATIC ALARM**



**REAL-TIME MONITORING**



**DATA HOLD**



**FIRMWARE UPGRADES**



**TECHNICAL SPECIFICATIONS**

	Unit	Range	Resolution		
<b>Wind Speed</b>	m/s	0~30	0.1m/s	<b>Temperature</b>	-20~60°C Acc: ±1°C(0~45°C) , ±2°C(45~60°C)
	km/h	0~108	0.1km/h		
	ft/s	0~98.5	1ft/s		
	Knots	0~58.3	0.1Knots	<b>Humidity</b>	0~99%RH Acc: ±5%RH(20~80%RH) ±6%RH(80%~99%RH)
	mil/h	0~67.1	0.1mil/h		

**GENERAL CHARACTERISTICS**

<b>Battery</b>	1500mAh	<b>Display</b>	2-inch HD Color Screen
<b>Product Color</b>	Black&Blue	<b>Product Size</b>	63x28x193mm
<b>Product Net Weight</b>	197g	<b>Standard Carton</b>	62.5*48*23.5cm
<b>Carton Gross Weight</b>	18.5kg	<b>Quantity Per Carton</b>	50PCS

INTRODUCTION

The FPM-02 is a high-precision lux meter that also measures temperature and humidity, making it ideal for comprehensive environmental monitoring. Featuring a 2" HD color display with selectable light and dark modes, it ensures clear visibility in both indoor and outdoor settings. Customizable alarm thresholds allow for real-time alerts when conditions exceed set limits. The FPM-02 is widely used in offices, laboratories, greenhouses, photography studios, and urban areas where accurate illumination levels are essential for safety and performance.

FEATURES

- 3 in 1 Lux, temperature and humidity
- Light and dark theme for easy readability in both indoor and outdoor
- Real-time monitoring with curve recording
- Languages: English/Chinese



TECHNICAL SPECIFICATIONS

Illuminance Range	1000, 9999, 99990LUX	Accuracy	± (3%+5Lux) (Calibrated to a standard incandescent bulb at 2854°K)
	100, 1000, 10000 FC		± (6% + 5 Lux) for other visible light sources
Resolution	0.1LUX (0~1000LUX)	Sampling Time	20Hz(50ms)
	0.1FC (10~1000)		

GENERAL CHARACTERISTICS

Battery	3.7V/1500mAh lithium battery	Display	2-inch Color Screen
Product Size	63x28x182mm	Product Color	Black&Blue
Standard Carton	62.5*48*23.5cm	Product Net Weight	205g
Quantity Per Carton	50PCS	Carton Gross Weight	19.7kg

**INTRODUCTION**

The WMT-10 inductive wood moisture meter features a 2.4-inch high-definition color screen, designed to assist the wood processing industry, wood users and the wall renovation groups in accurately measuring the moisture content of wood and wall. The WMT-10 supports four measurement modes: hardwood, softwood, plaster wall, and brick wall. It also includes data storage and viewing functions, providing users with convenient experiences on data management and analysis. Multiple-scene modes, data management, and accurate measurement capacity make it an ideal choice for the wood industry and the wall decoration groups, helping to improve wood production efficiency and product quality as well as supplying wall renovation guidance.

**FEATURES**

- 2.4-inch HD colorful screen
- Displaying Max value/Real-time value/Temperature
- Three colors displaying moisture levels
- Supports data storage and reviewing
- Languages: Chinese/English



**INDUCTIVE NON-DESTRUCTIVE MEASUREMENT**  
 Accurately measure the moisture content of white walls, brick walls, softwood and hardwood, range reaches 0-75% resolution 0.1%.

**(DEEP DETECTION) HIGHLY PRECISE MEASUREMENT**  
 Measures moisture deep in 17mm with rapid response and high detection accuracy.

**TECHNICAL SPECIFICATIONS**

Screen	2.4 inch	Display Resolution	0.1%
Maximum Sensing Depth	17mm	Refresh Rate	6times/s
Operating Temperature	0~40°C	Sensor Size	40.5x40.5 (mm)
Maximum Measurement Range	0~75.0%	Measurement Range	Plaster Wall: 0~25% Brick Wall: 0~43% Softwood: 0~75% Hardwood: 0~75%
Accuracy	±1.5%		
Data Record	30pcs		

**GENERAL CHARACTERISTICS**

Product Color	Blue & Black	Product Net Weight	140g
Product Size	61*141*29mm	Standard Carton	52*43.5*25cm
Display	2.4 inch HD colorful screen	Carton Gross Weight	13.9kg
Battery	3.7V, 1000mAh Lithium battery	Quantity Per Carton	50PCS
Standard Accessories	Main device*1, Data Cable*1, Manual*1		

**INTRODUCTION**

The WHD-02 is a precision Pin-Type moisture meter for real-time measurement of wood moisture content, using dual stainless-steel probes for fast and accurate readings. It supports seven calibration groups (A-G) for different wood densities, ensuring consistent results across various materials. Featuring a 2-inch high-resolution display, it also shows ambient temperature and humidity, offering integrated environmental monitoring. It is ideal for lumber processing, construction, flooring, and furniture manufacturing, ensuring process stability and quality consistency.

**FEATURES**

- 3 in 1 Wood Moisture Meter
- 0.5s refresh rate
- 2-inch HD color display
- Supports curve recording for data analysis
- Languages: English/Chinese



# WOOD MOISTURE METER

WOOD

7 MOISTURE MODE (A-G)

TEMPERATURE

HUMIDITY

CURVE RECORDING

**TECHNICAL SPECIFICATIONS**

<b>Moisture Mode</b>	A	12.4%~55%	Softwoods (300-450 kg/m <sup>3</sup> )	eg. pine, poplar, fir	<b>Accuracy</b>	0.10%
	B	10.9%~48%	Medium-density (450-550 kg/m <sup>3</sup> )	e.g., walnut, birch	<b>Resolution</b>	0.10%
	C	1.6%~22.1%	Semi-hardwoods (550-650 kg/m <sup>3</sup> )	e.g., cherry, elm	<b>Sampling Time</b>	2 times/second
	D	0.1%~11%	Hardwoods (650-750 kg/m <sup>3</sup> )	e.g., oak, mahogany	<b>Temperature</b>	✓
	E	1.1%~8.7%	Tropical woods (750-850 kg/m <sup>3</sup> )	e.g., teak, rosewood	<b>Humidity</b>	✓
	F	0.6%~9.9%	High-density (Over 850 kg/m <sup>3</sup> )	e.g., ebony, ironwood		
	G	0.3%~16.6%	Special materials (Varies)	e.g., bamboo, plywood, composite panels		

**GENERAL CHARACTERISTICS**

<b>Battery</b>	3.7V/1500mAh lithium battery	<b>Display</b>	2-inch color screen
<b>Product Color</b>	Black&Blue	<b>Product Size</b>	63*28*148mm
<b>Product Net Weight</b>	185g	<b>Standard Carton</b>	62.5*48*23.5cm
<b>Carton Gross Weight</b>	18.5kg	<b>Quantity Per Carton</b>	50PCS

# UI DESIGN OF DPOS350P 4-IN-1 MULTI-FUNCTION OSCILLOSCOPE

简体 English Русский

Português Deutsch ほんご



Oscilloscope



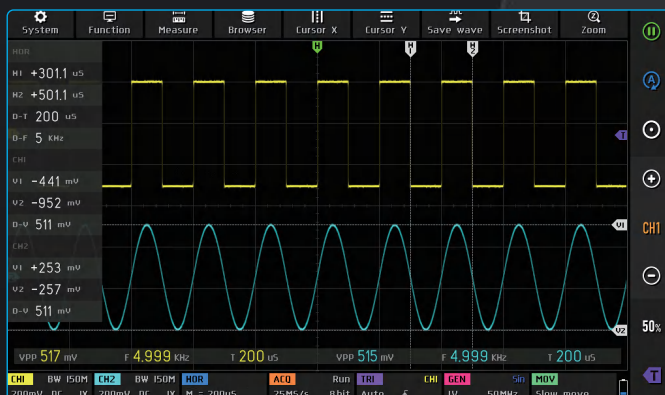
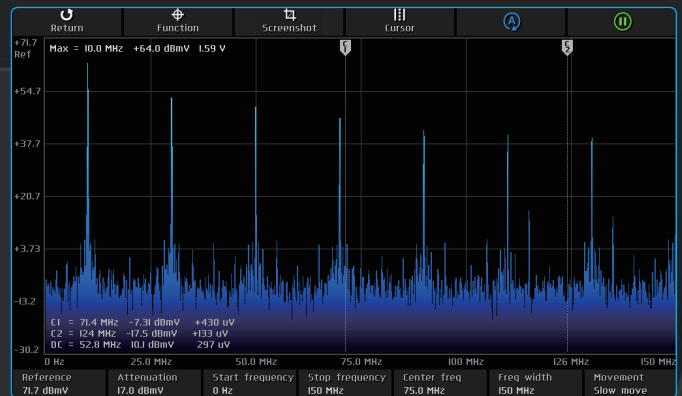
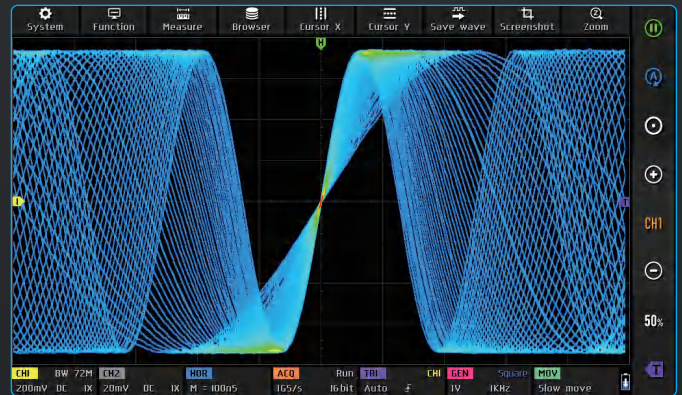
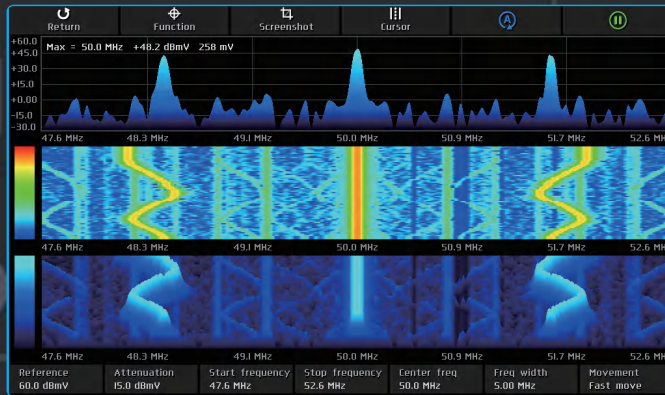
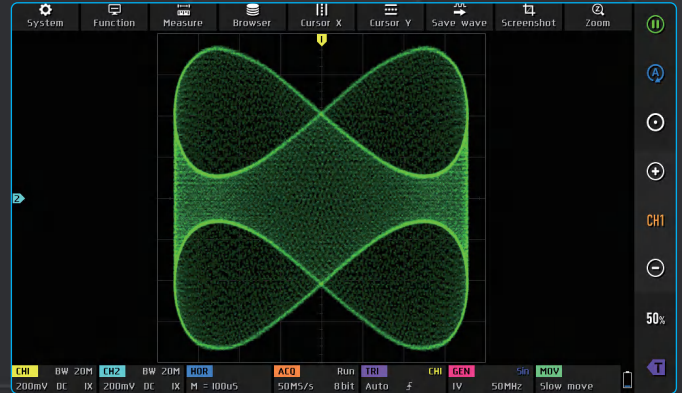
Signal Generator



Multimeter

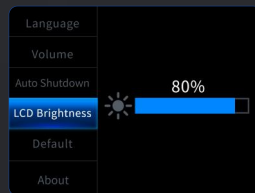
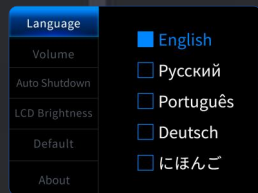
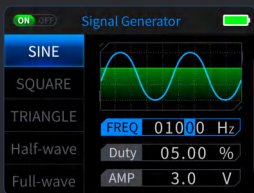
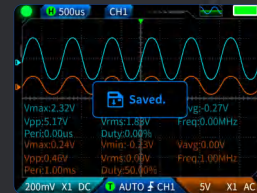
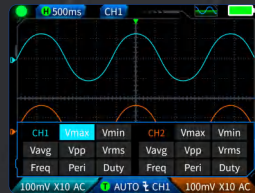
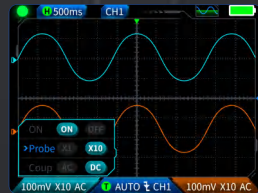


CONFIG



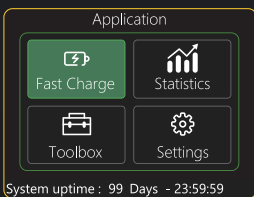
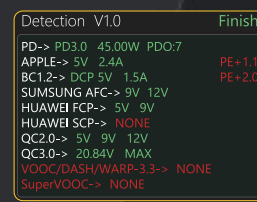
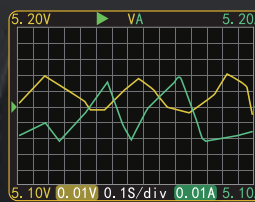
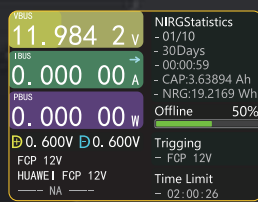
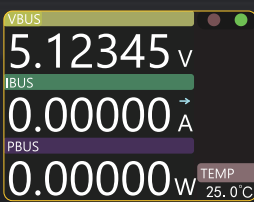
# UI DESIGN OF 2C23T 2CH OSCILLOSCOPE MULTIMETER

简体 English Русский  
Português Deutsch にほんご



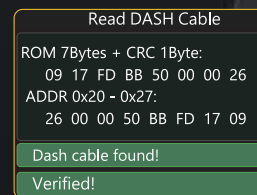
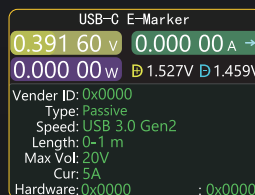
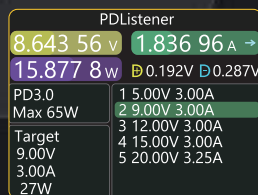
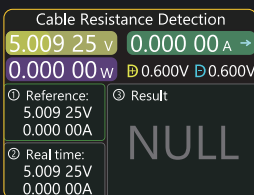
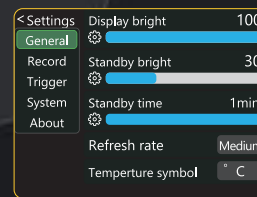
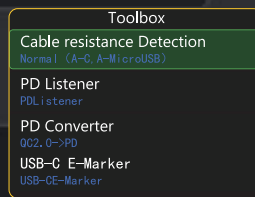
# UI DESIGN OF FNB58 USB FAST CHARGE DETECTOR

简体 English



List of statistics


No.	CAP/Ah	NRG/Wh	Time
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02	0.00000	0.00000	00D00:00:00
03	0.00000	0.00000	00D00:00:00
04	0.00000	0.00000	00D00:00:00
05	0.00000	0.00000	00D00:00:00
06	0.00000	0.00000	00D00:00:00
07	0.00000	0.00000	00D00:00:00




# FNIRSI


## FNIRSI

Shenzhen FNIRSI Technology Co., Ltd.

 0755-28020752

 [www.fnirsi.com](http://www.fnirsi.com)

 [business@fnirsi.com](mailto:business@fnirsi.com) (Business)  
[service@fnirsi.com](mailto:service@fnirsi.com)(Equipment Service)

 8th Floor, West of Building C, Weihuada Industrial Park,  
Dalang Street, Longhua District, Shenzhen,Guangdong Province



Contact Us