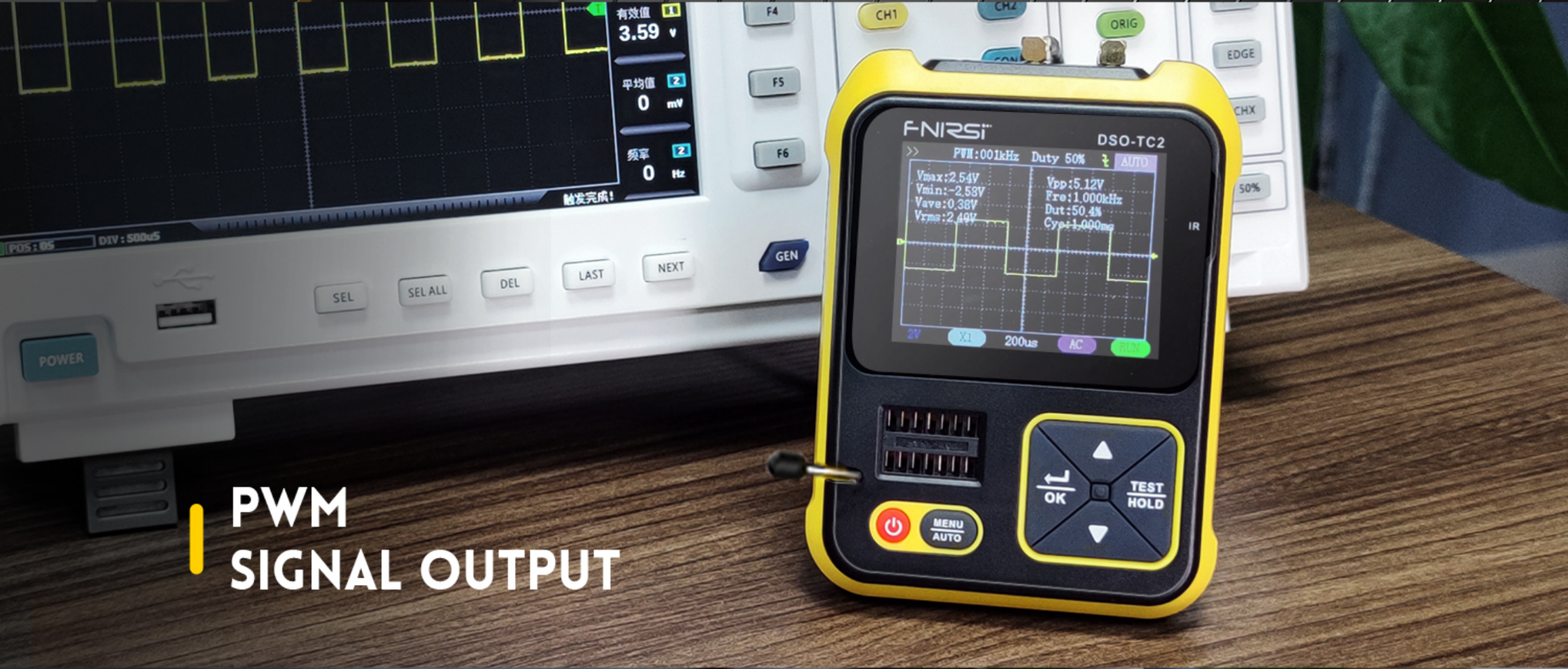
TWO IN ONE

Digital Oscilloscope &Transistor Tester

- Transistor Detection
- PWM Square Wave Output
- Hidden Folding Stand
- 2.4"TFT HD Display

FEATURES OF DIGITAL OSCILLOSCOPE

- Real-time sampling rate of 2.5MS/s & 200kHz bandwidth
- AUTO, One click to display the measured waveform
- Trigger Function (Single, Normal, Automatic)
- Up to ±400V voltage signal
- 80kHz /5.0V PWM wave test signal source with adjustable duty cycle


PWM
SIGNAL OUTPUT
FNIRSI
DSO-TC2
PWM:001kHz Duty 50%
Vmax:2.54V
Vmin:-2.58V
Vave:0.38V
Vrms:2.40V
Vpp:5.12V
Fre:1.000kHz
Dut:50.4%
Cyc:1.000ms
IR
MENU AUTO
OK
TEST HOLD


220V MAINS
DETECTION
FNIRSI
DSO-TC2
PWM:001kHz Duty 50%
Vmax:337.00V
Vmin:-333.00V
Vave:3.00V
Vrms:240.60V
Vpp:670.00V
Fre:0.050kHz
Dut:51.0%
Cyc:20.000ms
IR
MENU AUTO
OK
TEST HOLD

VARIOUS WAVEFORM DETECTION

FEATURES OF TRANSISTOR TESTER

- Automatically identify and measure various transistors.Including NPN and PNP transistors, N-channel and P-channel field effect transistors, junction field effect transistors, diodes, double diodes, thyristors, etc.,and passive components such as resistors, inductors, capacitors, etc.
- Automatic detection of pin definitions
- Automatically parse the infrared code of the NEC protocol
- Other Functional Modes: including circuit continuity test, 0~16V input voltage measurement, PWM output, 0~24V Zener diode measurement, DS18B20 temperature sensor measurement, DHT11 temperature and humidity sensor measurement, etc.

CAPACITANCE DETECTION

RESISTANCE DETECTION

INDUCTANCE DETECTION

TRIODE DETECTION

N-E-MOS DETECTION

0-16V VOLTAGE DETECTION

INTEGRATED HIDDEN STAND

Better viewing angle doubles efficiency

Standing Posture

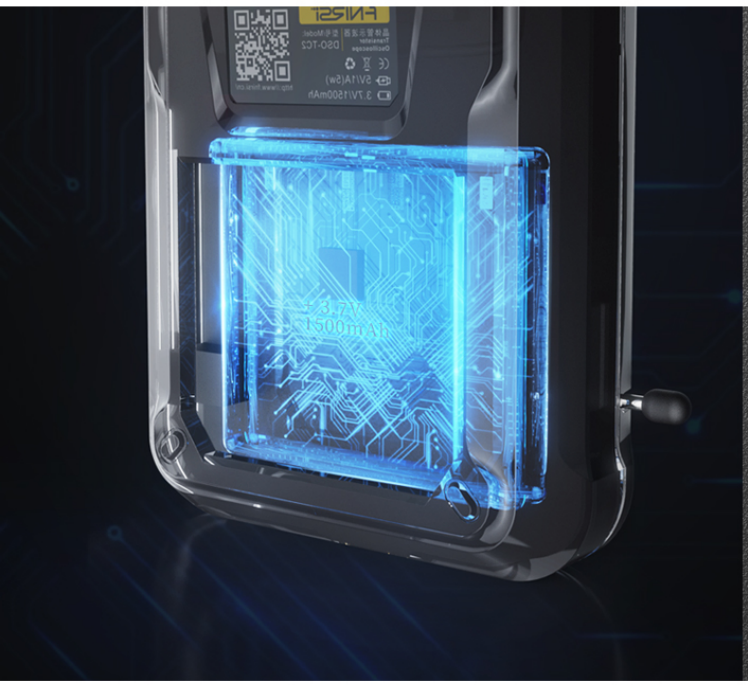
Rotate 90 Degrees

2.4"TFT FULL COLOR HD DISPLAY

320*240 resolution,data at a glance

Adjustable Buzzer

Adjustable Backlight



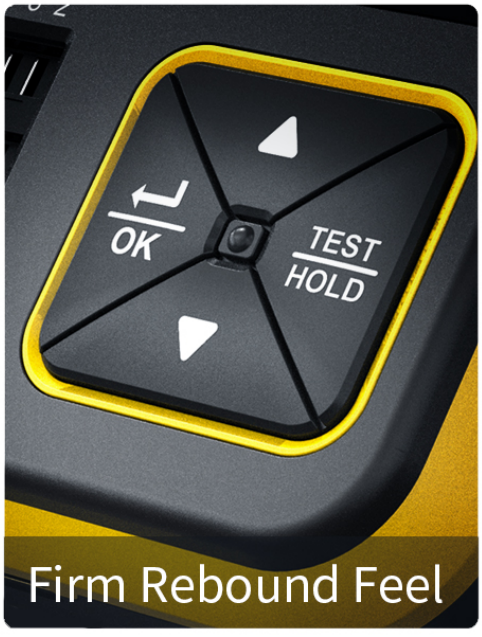
POLYMER LITHIUM BATTERY

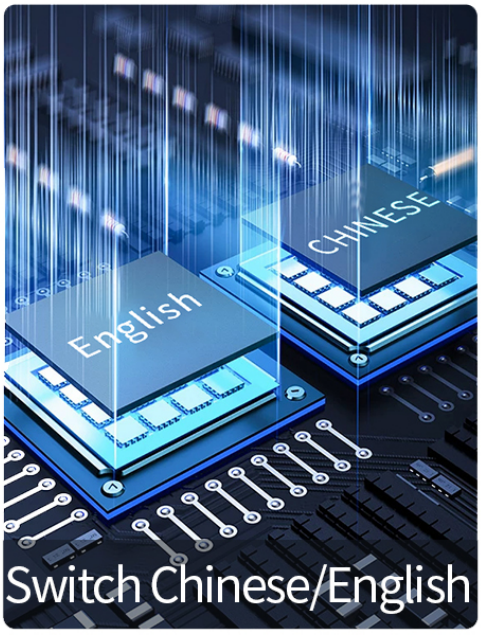
High-density polymer lithium battery, Safer,More durable

240 MIN
Continuous Working

Type-C
Power cycle

«« PERFECT DETAIL »»





<<< BUTTON FUNCTION >>>

<<< MULTIPLE VIEWS >>>

<<< SPECIFICATIONS >>>

Digital Oscilloscope	
Real Time Samplng Rate	2.5MS/s
Analog Band Width	0 ~200kHz
Input Resistance	1MΩ
Coupling Mode	AC/DC
Test Voltage Range	1:1 probe: 80Vpp (±40V) 10:1 probe: 800Vpp (±400V)
Vertical Sensitivity	10mV/Div ~ 10V/Div (in 1-2-5 increments)
Vertical displacement	Adjustable, with indication
Horizontal time base range	10μs/Div ~ 500s/Div (in 1-2-5 increments)
Trigger mode	Auto/Normal/Single
Trigger type	Rising edge, falling edge
Trigger level	Adjustable, with indication
Waveform freeze	Yes (HOLD function)
Automatic measurement	Maximum, minimum, average, rms, peak-to-peak, frequency, period, duty cycle
PWM output	FRQ: 0～80KHz, Duty cycle: 0～100%, Amplitude: 5.0V

TRANSISTOR TESTER

Category	Scope	Technical Parameter
Triode	*	Magnification hfe, base-emitter voltage Ube, Ic/Ie, collector-emitter reverse cut-off current Iceo, Ices, protection diode forward voltage drop Uf
Diode	Forward voltage drop <5V	Forward Voltage Drop, Junction Capacitance,Reverse Leakage Current
Zener diode	0.01~4.5V	(1-2-3 test area) forward voltage drop, reverse breakdown voltage
	0.01~ 24V	(K-A-A test area) reverse breakdown voltage
FET	JFET	Gate capacitance Cg, drain current Id at Vgs, protection diode forward voltage drop Uf
	IGBT	Drain current Id at Vgs, protection diode forward voltage drop Uf
	MIOSTET	Turn-on voltage Vt, gate capacitance Cg, drain-source resistance Rds, protection diode forward voltage drop Uf
SCRS Triac	Turn-on voltage <5V, gate trigger current <6mA	Gate voltage
Capacitance	25pF~ 100mF	Capacitance value, loss factor Vloss
Resistance	0.01Ω ~ 50MΩ	Resistance
Inductance	10uH~ 1000uH	Inductance value, DC resistance
Battery	0. 1~4.5V	Voltage value, positive and negative polarity
Input voltage	0~ 16V	Voltage value
DS18B20	*	Temperature
DHT1	*	Humidity
PWM output	1.5kHz~9.99MHz	*
Infrared remote control decoding	NEC protocol infrared code	Display user code and data code, and display the corresponding infrared waveform

Basic Parameters

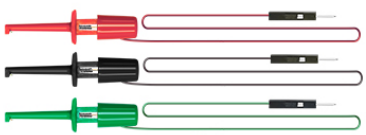
MOdel	DSO-TC2
Display	2.4 inch TFT color screen, LED backlight
Powered by	1500mAh rechargeable lithium battery
Charging	USB Type-C，+5V
Size	L79*W31*H103mm
Bracket	Hidden Support frame

«« PACKING LIST »»

1. DSO-TC2 Tester *1
2. User Manual *1
3. Type-C Cable *1
4. Test Book *3
5. Packing Box *1
6. Regular Probe *1
7. Adapters *1
8. P6100 High Voltage Probe *1

1

3



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NOTE!

1.The attenuation ratio of the probe should match the voltage of the signal under test.Please do not measure voltage signals that exceed the maximum range

2.When measuring the signal exceeding the safe voltage, the human body should not touch the exposed metal part of the instrument to avoid electric shock injury

3.Discharge the capacitor before measuring the capacitor, otherwise it may burn the instrument