

CAT.III 300V

1. Security Information

cople who use this meter should pay special attention to it , because the impro People who use this meter should pay special attention to it. Decause the improj use might cause electric shock or damage to the meter. Please follow the actual safety rules and safety measures as specified in the manual. To fully use the function of this meter and ensure its safety operation, please read follow its usage methods in the specification carefully.

This meter matched the technical requirement of digital multimeter GB/T 13978-92 and the safety requirement of electronic measuring meter GB4793.1-1995 (IEC-6100-1.1 belongs to secondary pollution and its over-voltage standard is CAT I 600V. Please follow the safe operation guide and ensure safe use for this meter. Proper use and maintenance for meter will give you a satisfied service.

 Users must follow the standard safety rules when using it :
 Need some universal protection to avoid electric shock. To avoid misuse the meter.

. Check if there is any damage on this meter or not in the process of transportation then received it.

3. Check if there is any damage on this meter or not when preserved, loaded and 4. The test lead must be in a good condition.Check whether there is any damage on its insulation or not and if meter's metal wire is exposed or not before using it.

The correct function and measuring range must be guaranteed when using it.Don't overtake the indicating value of protection extent of everymeasuring range when testing. 7. Don't touch the top of test lead (the metal part) when linked meter with

measuring circuit.

8. When testing, if the voltage tested is over 60V DC or 30V AC (RMS), please keep

your fingers behind the test lead protector.

9. When the measuring terminal voltage is over 500V DC or 500V AC, please stop testing voltage.

10. Before turning the switch to change the testing function, the test lead should be

10. Before turning the switch to change the testing function, the test lead should be removed from the measuring circuit.

11. Do not measure resistance and lines with electricity.

12. When measuring resistance and lines with electricity, please do not link meter with voltage source.

13. Don't use the meter under the explosive gas, steam or dust environment.

14. If there is any shoppomality or malfunction in the meter, user should ston using it.

4. If there is any abnormality or malfunction in the meter, user should stop using i 5. Multimeter should not be used unless the meter bottom shell and the battery over are completely clasped in place.

 Double insulation protection. (II Level) CAT II In accordance with the IEC-61010-1 standard over-voltage (installation) level II,pollution level 2,CAT II means the level of pulse withstand voltage protection provided.

> C€ Matched EC(EU) standard. Electrical grounding.

Product Description

1、Part Name No. Description Input lead(positive) LCD Screen Power button Non-contact voltage sensing(VALT) 10 5 Function switch 6 Test lead(negative

2. Button Description () Power button: Long press: Power on. Long press after power on: Auto shutdown enable/disable.

Short press: Power off. Non-contact voltage sensing: Short press: Switch VALT mode/high sensitivity VALT Long press: Null.

Short press: mode switch, includes auto mode, resistance mode. continuity mode, DC voltage, AC voltage, frequency mode live check mode.

Long press: Backlight and flashlight switch (Backlight and flashlight can only be switched on and off at the same time Cannot be controlled separately)

3、LCD full display symbol

Symbol	Explanation
DC	DC voltage
AC .	AC voltage
O	Auto shutdown function indication
	Low battery indication
*	Diode mode
-1))	Continuity
-H-	Capacitance
%	Duty ratio
HOLD	Data hold
V,mV	Voltage unit: volt, millivolt
mF,µF,nF	Capacitance unit
ΜΩ,ΚΩ,Ω	Resistance unit
ОНМ	Resistance mode
KHz,Hz	Frequency unit
°C/°F	celsius/fahrenheit

Specification

Overview . Automatic range.

2. Full measuring range overload protection 3. Auto mode: Automatic identification of AC voltage, DC voltage,

resistance. 4. Display: LCD 5. Maximum display value: 1999 digits

 Polarity indication : Self-indicating, '-' means Negative polarity.
 Over-range display: 'OL' or '-OL'. 8. Sampling time: The meter figures show about 0.4 seconds.

9. Automatic Power off time: 5 minutes.

10. Battery low voltage indication: LCD display symbol.

11. Operational temperature and humidity: 0~40°C, 0~80%RH. 2. Storage temperature and humidity: -10~60°C, 0~70%RH.

13. Battery: 1. 5V AAA x 2. 14. Operating altitude: ≤2000m. 15.Boundary dimension: 22*22.5*188mm 16.Weight: 52g (without battery).

Technical index

Test conditions: environmental temperature 18 $^{\circ}\text{C}$ to 28 $^{\circ}\text{C},$ relative humidity <80%RH.

1. DC voltage

2. AC voltage Range Resolution Accuracy

υν ουυν (AC mode)
0. 8V 500V (Auto mode)

± (1.2% +5counts) Input impedance: 1MΩ Maximum input voltage: 500V Red backlight alert: >90V

Range Resolution Accuracy

 $0Ω^{2}.000MΩ$ 1Ω ± (1.2%+3counts)4. Frequency

Auto power off No signal input for about 5 minutes

DC voltage(Automatic mode

Function Explanation
Continuity If the resistance <50 Ω, the buzzer sounds. high.

Live wire LCD display " ********** icon if live wire recognized , and the live wire recognized ...

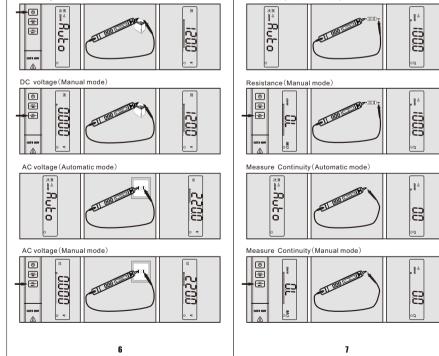
4. Operation Instructions

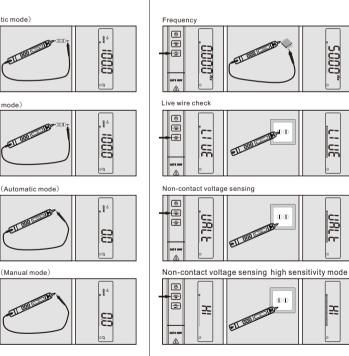
1.Press \circ for 1 seconds to power on. Enter AUTO mode(Auto mode can automatically measure AC/DC voltage, resistance and continuity) 2. Connect the test leads to the voltage or resistance, Meter automatically measure AC voltage, DC voltage and resistance.

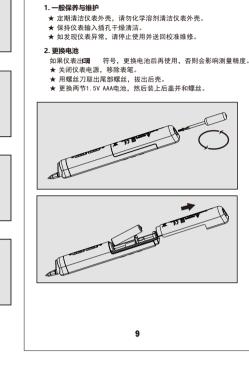
3. Short press **SEL** button, to switch Auto / Resistance / Continuity / DC /AC / Frequency / LTVE modes. 4. Long press SEL to switch on/off the backlight and flashlight is Short press to switch VALT mode or high sensitivity VALT mode.

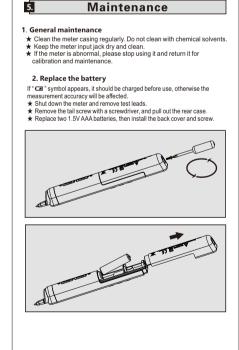
Short press (b) button to shutdown. Long press **O** button to enable or disable the auto shutdown function

2. Do not input AC or DC voltage higher than 500V, it may destory the mete









U91 E