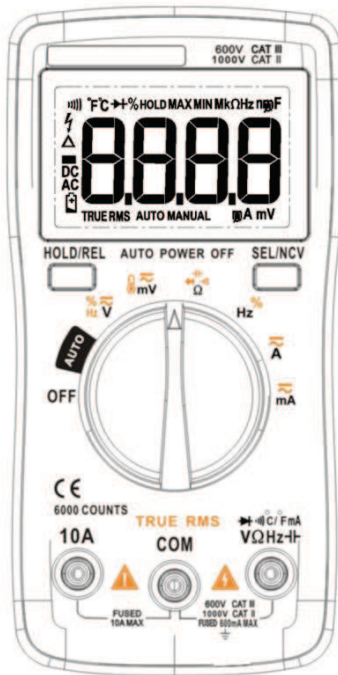


## User Manual



### LIMITED WARRANTY AND LIMITATION OF LIABILITY

Customers enjoy one-year warranty from the date of purchase.

This warranty does not cover fuses, disposable batteries, damage from misuse accident, neglect, alteration, contamination, or abnormal conditions of operation or handling, including failures caused by use outside of the product's specifications, or normal wear and tear of mechanical components.

Thank you for purchasing our product.  
Please read this manual carefully before use.  
Please keep this manual properly after reading.

### Safety Instructions

Please read the following precautions carefully.



**Caution** There may be a risk of death or serious injury.



**Caution** There may be a risk of personal injury or property loss.

- ◆ Do not input signals exceeds the measurement range of this product. Please select the correct test position and range to avoid damage to the instrument or personal injury. "OL" will be shown on the display when out of range.
- ◆ When the voltage to be measured exceeds 36V DC or 25V AC, the operator shall be careful to avoid electric shock.
- ◆ Check the function position before measuring.
- ◆ Disconnect the test leads from the circuit before changing the mode.
- ◆ For your safety, please read this manual carefully before use. Please fully understand the instructions and use this product correctly.



**Caution**

Do not measure circuits that exceed the maximum input rated value 1000V.

### Measurement Notices

#### Common Notice



**Caution**

- ◆ DC/AC high voltage circuits are very dangerous, please be careful to measure.
- ◆ Do not to add AC/DC voltages that exceeds the maximum rated value between the ground terminal and test terminal.
- ◆ Do not add voltage that exceeds the allowable value.
- ◆ Do not operate this product with wet hands to avoid the risk of electric shock.
- ◆ Do not use the product around explosive gas, vapor, or in damp or wet environments.
- ◆ Do NOT touch the input terminals when measuring.
- ◆ Do not use test leads with damaged coatings.

#### AC/DC Voltage Measurement Notice




**Caution**

- ◆ The measured voltage should not exceed the rated maximum test value, otherwise it may damage the product and endanger personal safety.
- ◆ Do not measure voltages that exceed the allowable value.

#### AC/DC Current Measurement Notice



**Caution**

- ◆ The measured current should not exceed the rated maximum test value, otherwise it may damage the product and endanger personal safety.
- ◆ Use the 10A Terminal and the  Mode to judge range and choose the right function position when measure an unknown current.
- ◆ It is strictly forbidden to input voltage in this measuring state.

#### Resistance Measurement Notice



**Caution**

- ◆ Before measuring the resistance, please make sure that all capacitors in the circuit to be measured are fully discharged.
- ◆ It is strictly forbidden to input voltage in this measuring state.

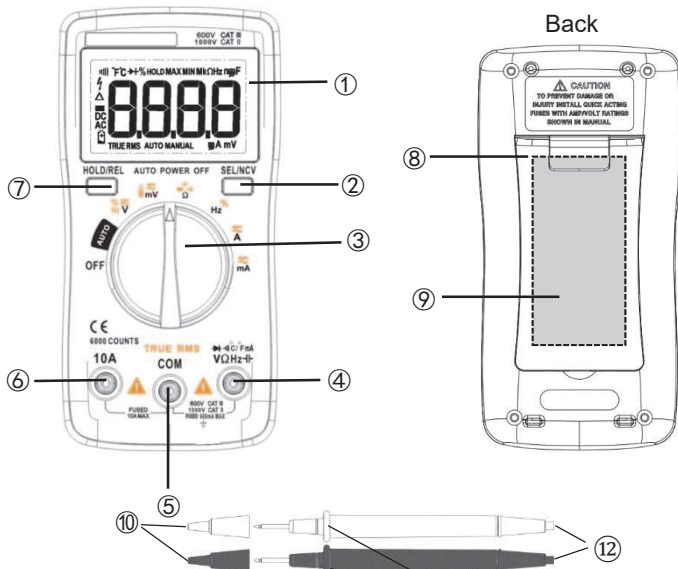
#### Continuity Measurement Notice



**Caution**

- ◆ Please do not measure the continuity with a voltage circuit or wire.
- ◆ It is strictly forbidden to input voltage in this measuring state.

## 5. Appearance



- |  |   |
|--|---|
| ① LCD Display  | Function Dial                               |
| ② SEL/NCV  | (a) Power (OFF)                             |
| ③ Function Dial  | (b) AUTO (Voltage/Resistance/Continuity)    |
| ④ Voltage/Diode/Resistance/Continuity/Frequency/Temperature/Capacitance Input Terminal | (c) Voltage/Frequency/Duty Cycle            |
| ⑤ COM Terminal   | (d) Temperature/mV Voltage                  |
| ⑥ Current Input Terminal   | (e) Diode/Resistance/Continuity/Capacitance |
| ⑦ Data Hold/REL  | (f) Frequency/Duty Cycle                    |
| ⑧ Stand  | (g) A Current                               |
| ⑨ Battery Cover  | (h) mA Current                              |
| ⑩ Probe Cover  |   |
| ⑪ Test Lead Insulator  |   |
| ⑫ Test Leads   |   |

## 6. Measurements

### 6.1 Steps for measurement

1. Confirm the measurement content in the table on the right.
2. Switch function dial according to the item to be measured.
3. Please remove test leads after measuring.
4. Turn off the power.

### Caution

1. Do not confuse the item to be measured with the position of the function.
2. Do not exceed the maximum rated value of each function.
3. Do not switch functions or modes during measurement.
4. During the measurement process, hold the insulated part of the test lead and do not hold the pins of the test lead.

### 6.2 Auto Power Off

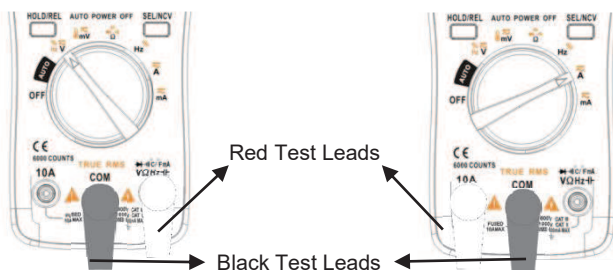
1. This feature prevents the battery from running out if you forget to turn off the power.
2. If the operation is not continued for about 15 minutes, the auto power off function will automatically cut off the power.
3. If you want to cancel this function, you should press and hold the SEL/NCV button and then turn it on again. It will be cancelled after five beeps.

### ※Methods of Connecting Test Leads

- ① Put the black lead into **COM** terminal and put the red lead to **VΩHz** terminal in Picture1
- ② Put the red lead to **10A** terminal when test the current in Picture2.

Picture1

Picture2



Measurement	Function Position	Data Display
Auto	<p>Auto-recognition for Voltage /Resistance/ Continuity by connecting test leads</p>	DC 1500 V
		1000 kΩ
		0000
DC Voltage AC Voltage (Frequency Duty Cycle) Temperature	<p>Please select temperature function in mV by SEL/NCV</p>	DC 1500 V
		AC 1028 V
DC Current		DC 20.18 mA
AC Current		AC 20.18 mA
Resistance Ω		1000 kΩ
Continuity		0000
Diode	<p>SEL 鍵切换功能</p>	0632
Capacitance		1000 μF
Frequency Duty Cycle Hz/%		5000 Hz
NCV Function		EF
Data Hold/REL HOLD/REL		2000 V
		AC 1028 V