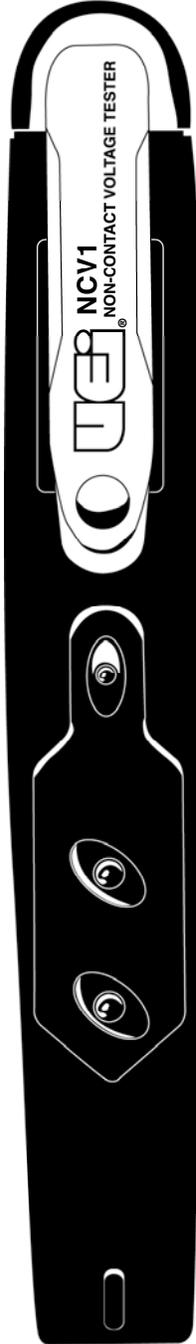




**INSTRUCTION MANUAL**

**NCV1**

**Non-Contact Voltage Tester**



**1-800-547-5740 • Fax: (503) 643-6322**  
**www.ueitest.com • email: info@ueitest.com**

## Introduction

The NCV1 is a convenient pocket-size multifunction tester, which combines latest digital technology with advanced powerful intelligent sensor enable it to distinguish high/low AC voltage.

### Features include

- Non-contact AC voltage test: from 70-600 V AC (with auto hi/low sensitive indication)
- DC voltage/polarity check: 1.5 V - 36 V DC
- Continuity check: 0 - 80 M
- Flash light

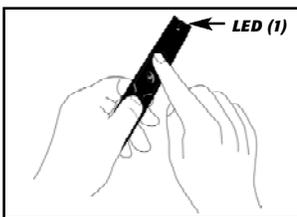
### Safety Notes

- The tester should not be used to test voltages above the stated rated voltage.
- Operating temperature within  $-10^{\circ}$  to  $+50^{\circ}\text{C}$  ( $14^{\circ}$  to  $122^{\circ}\text{F}$ ) and the frequency range from 50 to 500 Hz. Best environmental temperature range up to  $30^{\circ}\text{C}$ , humidity 80% at altitude up to 2,000 meter.
- The tester must be tested on a known voltage source to make sure it is operating properly.
- The tester must not be used in the presence of moisture, (e.g. dew or rain).
- Damaged tester must not be used.
- Static electricity may be generated by rubbing the **"BODY"** of the tester (when pressing the switch) thus causing LED blinks, this is **NORMAL**.
- The flashlight always lights up when pressing the switch, this is **NORMAL**.
- In case of doubt, please consult a qualified technician.

### Self-Test Function

Prior to use, it is necessary to perform a self-test to ensure guaranteed indication. Press the switch down and touch the **"TEST PIN"** by other free hand.

Both LED lights up and buzzer sounds indicating **"NORMAL FUNCTIONING"**.

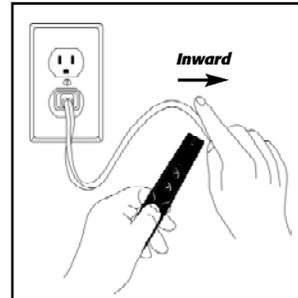


## Non-Contact AC Voltage Testing

Press the switch when testing.

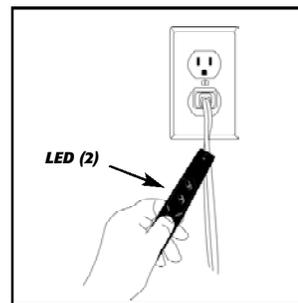
### Identifying polarity of AC voltage of the wire

To locate **"LIVE/HOT"** side of the wire, hold/grip the wire with your free hand and gently **"TRACE"** inward.



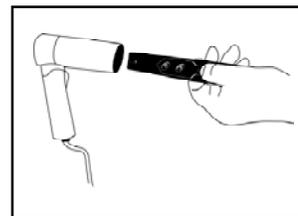
### Broken wire/fault finding

**"FAULT/BREAK"** point in the **"LIVE/HOT"** wire is indicated by an interruption in sound and light (LED(2)).



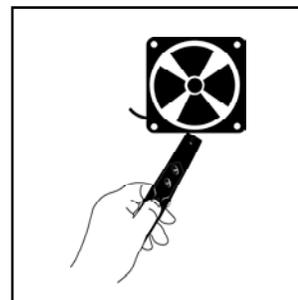
### Proper connection check

Move the tester close to the hair dryer with the power OFF. The buzzer comes ON when the plug is inserted improperly, or if the **"LIVE/HOT"** wire is improperly connected to the plug.



### Ground/Earthing check

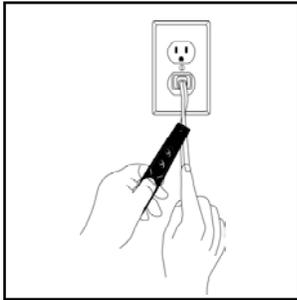
Move the tester close to the fan, toaster, electric kettle, dryer machine, microwave oven, etc.. The buzzer comes ON if the **"GROUND/EARTHING"** is not connected in the wiring.



**NOTE:**

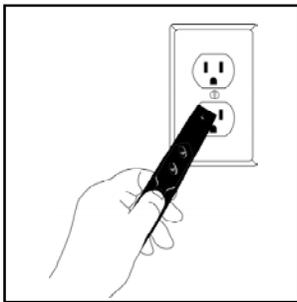
**1. To Reduce Sensitivity**

If sensitivity is too high, hold/grip the wire and "**TRACE**" inward for accurate results.



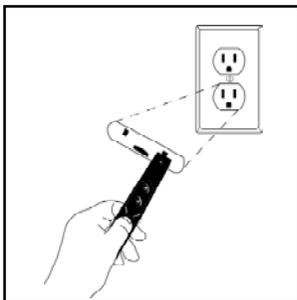
**2. High Sensitive Sense**

For more sensitive detection, face "**FLAT BOTTOM SIDE**" (near the "**TIP**") towards the AC voltage.



**3. Low Sensitive Sense**

For lower sensitive detection, face "**TIP**" side towards the AC voltage.



**4.** Due to auto High/Low sense feature, LED(2) glows steady when AC signals are stronger. When the tester approaches near the AC Voltage LED(2) starts blinking, buzzer tone changes.

**5.** Static electricity may be generated by rubbing the plastic housing thus cause false indication(LED blinks).

**6.** The sensitivity may be reduced under high humidity environments.

**7.** Testing through the wire should be unshielded and must connect to AC voltage.

**8.** Wires inside concrete walls or metal conduit can not be detected.

## DC Voltage/Polarity Check (1.5V ~ 36VDC)

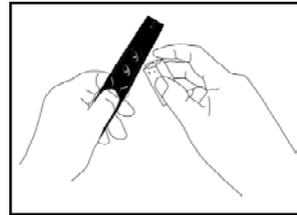


**WARNING!**

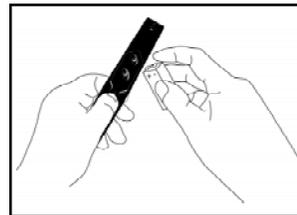
*Be sure to disconnect any AC mains or high voltage!*

Press the switch when testing.

Touch the "**TEST PIN**" with "**POSITIVE**" (+) side, and be sure that the free hand touches the other "**NEGATIVE**" (-) side.



LED blinks and buzzer sounds when "**POSITIVE**" (+)



No response when "**NEGATIVE**" (-)

## Continuity Check



**WARNING!**

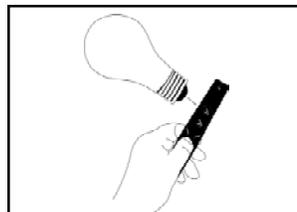
*Be sure to disconnect any AC mains or high voltage!*

Press the switch when testing.

Press test switch then contact one side of the object to the "**TEST PIN**" and the other side of the object with your free hand. The NCV1 will easily identify "**GOOD**" or "**BAD**" fuses, bulbs, heating elements, wiring etc., and it can also check/identify resistor, coils, etc.

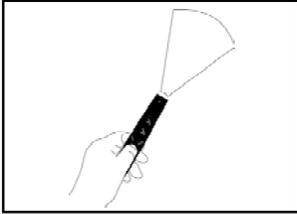


**GOOD**  
LED blinks and buzzer sounds



**FAULT**  
No response

## Flashlight



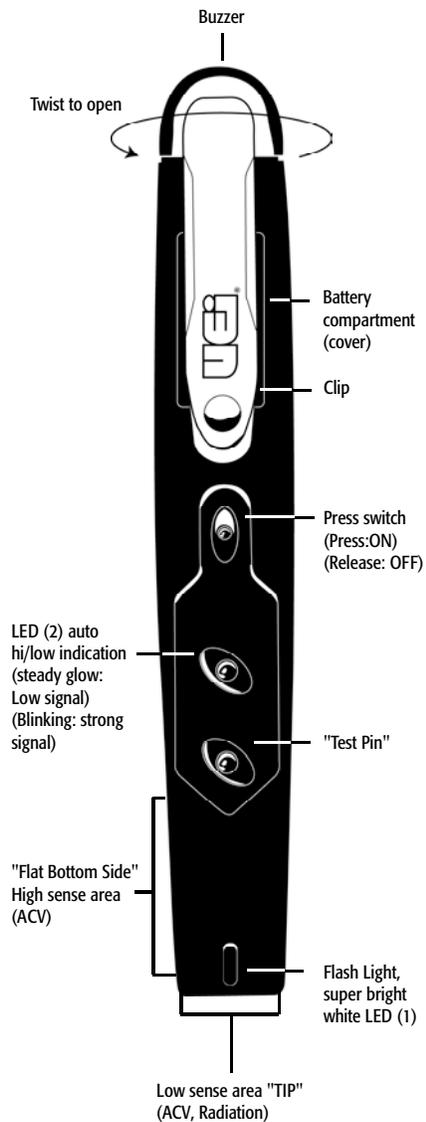
LED (1)  
always lights  
up when  
pressing  
the switch.

## Battery Replacement

Twist the clip either left or right hand side and pull the cover out, replace with fresh batteries with "**NEGATIVE**" at left side and then place back the cover.



**WARNING!**  
*Do not operate the tester with cover removed.*





# NCV1

## Non-Contact Voltage Tester

### Limited Warranty

The NCV1 is warranted to be free from defects in materials and workmanship for a period of three years from the date of purchase. If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at UEi's option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. Batteries and consequential damage resulting from failed batteries are not covered by warranty.

Any implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the express warranty. UEi shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim or claims for such damage, expenses or economic loss. A purchase receipt or other proof of original purchase date will be required before warranty repairs will be rendered. Instruments out of warranty will be repaired (when repairable) for a service charge. Return the unit postage paid and insured to:

**1-800-547-5740 • FAX: (503) 643-6322**  
**www.ueitest.com • Email: info@ueitest.com**

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

