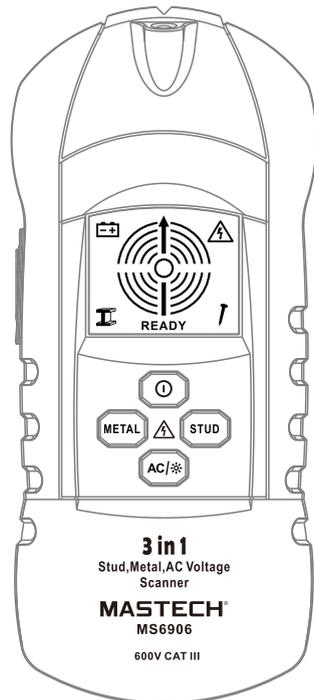


**3 in 1 Scanner**  
Stud+Metal+AC Voltage Scanner



**MASTECH®**

**I. Maintenance**

- Keep clean with a dry cloth.
- When the symbol of "battery" is display on the LCD, please unscrew and remove cover, insert new 9V battery so as to the meter is well-balanced.
- Warning: If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

**II. General Description**

The functions of meter are accurately and safely. Detects wood or metal edge, metal pipe and AC voltage hidden behind board.

**III. Specification**

- Stud detection depth and accuracy : 1.2" ±1/8"
- Metal Pipe detection depth: 2~1.2"
- AC volt detection depth: 3~1/2"
- Operating Range: Non-contact AC Detector  
50~600V AC 50-60HZ.
- Automatism turnoff (7 minute)
- Energy: 9 V battery (NEDA 1604, 6F22, 006P)
- Operating temperature and humidity: 0 ~ 50°C  
80%
- Storage condition:-10~60°C, <70% RH (battery removed)

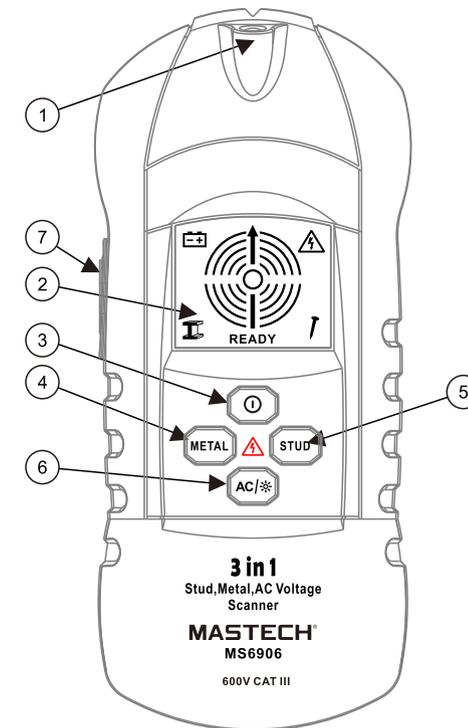
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**IV. Meter Function**

1. Flashlight
2. Display
3. On-off button
4. Metal detection
5. Wood and metal stud edge detection
6. AC voltage detection(50-600VAC) and back light
7. Scan button
8. Metal marking tip to mark location of stud edge
9. Operate from 9 V battery

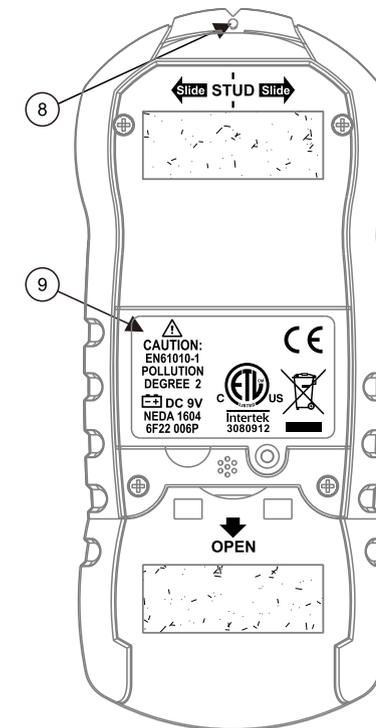
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**FRONT PANEL**



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**BACK PANEL**



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### V. Operating Instratations

The functions of meter are accurately and safely. Apply install 3 wire electrical box, switch and outlet. Detects wood or metal edge ,metal pipe and AC voltage hidden behind wall.

### VI. Notice

- Will not detect damp wood or board. ("STUD" mode)
- Will not detect a combination of defects. ("STUD" mode)
- Will not detect two hot wires in a circuit. ("AC" mode)

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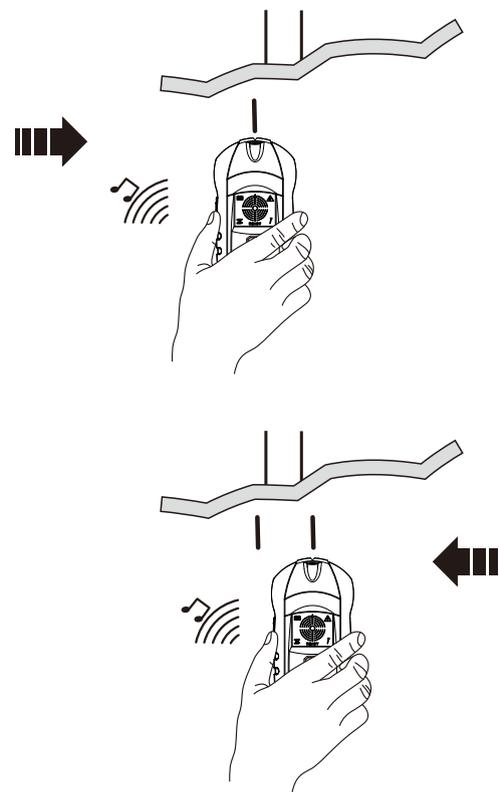
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### VII. Stud Detection (wood and metal)

- Press the "STUD" button.
- Place unit flat on the wall. Press and hold the scan button. Do not move the unit until calibration is complete. When calibration is complete, the symbol of "READY" will display and concomitance a buzzer.
- If you calibrate over a stud, the level of the signal is full and the beep sounds. Move the unit a few in chs right or left , release the scan button and iterate step "B".
- After calibration is complete, continue to hold the scan button and slowly slide the unit across the surface.
- When the unit detect a stud edge, the level of the signal is full and the beep sounds. Mark this location with the metal tip build into the top of the unit.
- Continue scanning beyond the marked spot until the level of the signal is vacancy. Slide unit in reverse direction to locate other edge of stud. The middle of the stud is centered between the two marks.

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### VIII. Metal Pipe Detection

- Press the "METAL" Button.
- Place unit suspend in the air. Press and hold the scan button. Do not move the unit until calibration is complete. When calibration is complete, the symbol of "READY" will display and concomitance a buzzer.
- When the unit detect a metal pipe , the level of the signal is full and the beep sounds.
- Mark this location with the metal tip build into the top of the unit.

### IX. AC Volt Detection

- Press the "AC" Button.
- Place unit flat on the wall. Press and hold the scan button. slowly slide the unit across the surface.
- When the unit detect a "live"50V or higher source , such as a wire, the level of the signal is full and the beep sounds.
- Mark this location with the metal tip build into the top of the unit.

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## MASTECH®

### X. Safety Symbols

	Caution
	Caution, possibility of electric shock
	CONFORMS TO UL STD 61010-1,61010-2-030; CERTIFIED TO CSA STD C22.2 NO. 61010-1, 61010-2-030
	Complies with European (EU) safety standards

### CAT III (measurement category III):

Applicable to test and measuring circuits connected to the distribution part of the building's low-voltage MAINS installation.



R-00-05-0641