

DIAMOND COMBO TESTER

User Manual



NOTE:

When testing, hold the tester by placing your index and thumb on the conductive panels, and keep the fingers away from the tip cone area.

The probe tip must be placed at a right angle (90° position) or perpendicular to the facet of the gemstone for an accurate reading.



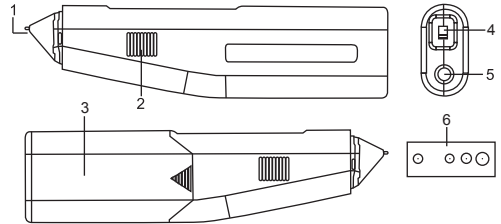
INTRODUCTION

Thank you for purchasing the Diamond Combo Tester. The tester is designed to distinguish natural diamond from moissanite and other fake stones simultaneously and quickly.

FEATURES:

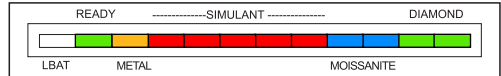
- Easy operation without the need to adjust the LED bar graph via volume control to match stones of different sizes like that used in other diamond tester models.
- Could be powered by AAA alkaline batteries, NiMH batteries or an AC power adaptor (Not included in the set).
- Can distinguish stones as small as 2pt.
- Low battery indicator.
- Equipped with an elastic probe tip.
- Built-in metal detector
- Beep reminding of shutdown after around 10 mins. of non-use.

DIAGRAM



1. Probe
2. Conductive panel
3. Battery cover
4. Power ON/OFF switch
5. DC socket for AC adaptor
6. Testing Base

INDICATOR BAR GRAPH



PREPARATION

Remove the battery cover and insert 3pcs of AAA batteries into the battery compartment correctly with the direction of positive and negative pole. Turn the power ON/OFF switch to "ON", the READY lamp will blink. Then wait for about 25 seconds for the testing probe to be heated. The tester is ready for testing when the green lamp lights up.

OPERATION

- Use a gem cloth to clean the stones to be tested. When the testing is conducted in a room with high humidity, it is better to scratch the tester's probe tip on a dry cloth for several times.
- For mounted jewelry, please hold the jewelry with one hand; For loose stone, you are required to place the stone on the Testing Base, and hold testing base with one hand.



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USER MANUAL
in different languages
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www.cd50.net/03

TUTORIAL VIDEO ON HOW TO USE



Need more help? CONTACT US.

- Use the other hand to hold the tester, keep contact with the conductive panels using your index and thumb and keep the fingers away from the tip cone area.

Conductive panel



- The probe tip must be placed at a right angle (90° position) or perpendicular to the facet of the gemstone for an accurate reading.

- If the tested object is a **DIAMOND**, the **diamond zone green indicator** lights up and a "BI-BI-BI" will be heard.

- If the tested object is a **MOISSANITE**, the **moissanite zone blue indicator** lights up and a "BI-BI-BI" will be heard.

- If the tested object is other **SIMULANT**, the **simulant zone red indicator** lights up.

- If the tested object is **METAL**, the **metal zone orange indicator** lights up and beeps a long "Bi---" sound.

WHEN TESTING, HOLD THE TESTER IN PERPENDICULAR POSITION (90°).



GREEN indicator will light up when the stone is a **REAL DIAMOND**



BLUE indicator will light up when the stone is a **MOISSANITE**



RED indicator will light up when the stone is **simulant**



ORANGE indicator will light up when the object is **metal**

NOTE:

- When using the tester to test a same gem stone repeatedly, wait for several seconds between each testing so that the stone is cooled to a room temperature.
- After a testing, the tester should be held for several seconds until its probe tip is reheated to rated temperature for another testing.

SPECIFICATIONS

Working voltage	DC 4.5V, AAA alkaline or Ni-MH battery or AC adaptor (110V-240V, DC 4.2V, optional)
Probe warm up time	About 25 seconds
Working time	About 2 hours for continuous use
Net weight	65g (not including batteries)
Tester size	173mm x 42mm x 22mm
Gross weight	210g
Gift box size	215mm x 90mm x 48mm
Working temperature	18°C ~ 30°C
Working Humidity	<70% RH

IMPORTANT NOTICE

• When conducting a test, the room must be at a temperature of 18°C-30°C and with a humidity of <70% RH.

- For long time use, we suggest to use an AC adaptor (110V-240V, DC4.2V, optional).

- When using an AC adaptor, please use the adaptor supplied by the manufacturer.

- If LED lamp above LBAT lights up red, it means the batteries are low and new batteries should be replaced. Otherwise the low batteries would lead to inaccurate testing results.

- If the tester not being used for a long time, batteries should be removed from the tester.

MAINTAINANCE

- Put the testing probe protective cover on when the tester is not in use.

- When using the tester in a humid environment or it is not used for a long time, the tester's probe tip would be oxidization and turns black which would lower the sensitivity and incur a wrong reading when testing.

- To make sure its testing accuracy, when the probe tip turns black, please rub the tip on the surface of a dry cloth or paper gently until the tip gets brighter.

- This tester has already been calibrated at the factory. Generally, it's not necessary for calibration again.