

# DIAMOND BEAM™ I OPERATING INSTRUCTIONS

DIAMOND BEAM™ I is a unique instrument which separates real diamonds from imitation diamonds. If the operator of this instrument does not carefully follow the instructions listed below, the end result might be incorrect operation and misleading test results.

1. **To Begin Operations:** Slide On/Off switch to "ON" position. The red "Power" light will come on accompanied by the beep, signaling that the power is on. If the red light blinks or does not appear, this means that the DIAMOND BEAM I needs to be charged as described below:

Slide On/Off switch to "Off" position and plug the adapter into the instrument's charging jack. The batteries will be fully charged in 4 to 6 hours (maximum charging time is 6 hours). While powered by batteries only, unit can continuously operated for one and a half.

**Note:** When battery is low, the red power light will begin flashing. This means the instrument needs to be recharged.

2. **Wait Approximately 10 Seconds. This instrument is now warming up. A red "Ready" light will come on signaling the instrument is now ready to begin testing diamonds. To insure accuracy in measurements, it is suggested to wait for another 2-3 seconds before the start of operation.**
3. **Testing Diamonds:** Press the sensing tip firmly against the stone under test. A yellow "Test" light will come on. Be sure to apply sufficient force to fully depress the probe tip against the stone until yellow light comes on. If the stone is a diamond, a green "Diamond" light will come on accompanied by a beep. The light and the sound will last for approximately two seconds. If the sensing tip is touching metal, the "test" light will go off. After every test, wait for 2-3 seconds for the instrument to reset itself for the next test. The red "Ready" light will come on when the instrument is ready for next test.

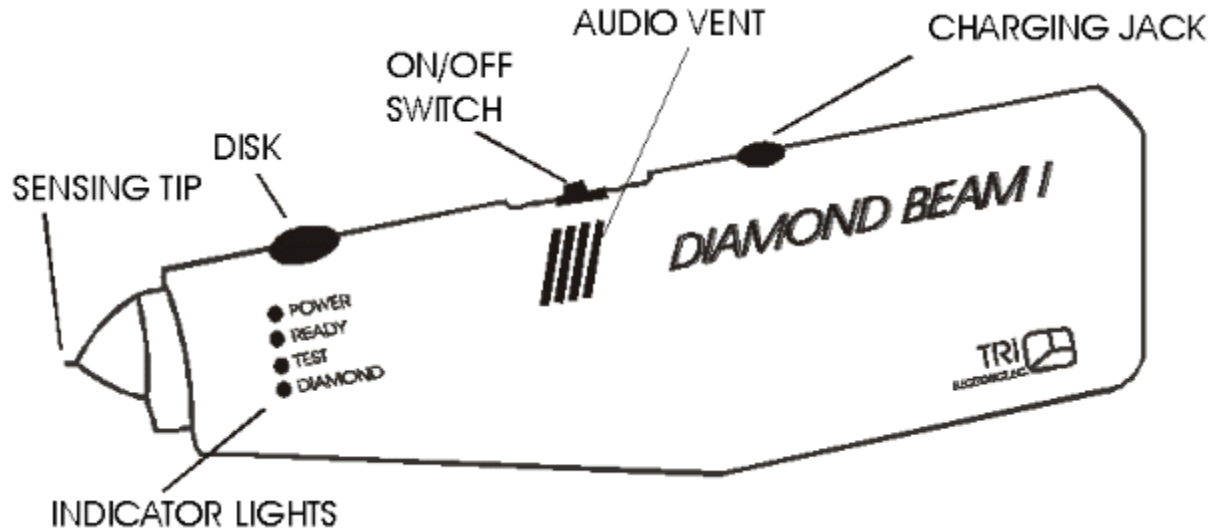
**Note:** When testing, be sure you place your index finger on the disk on the switch-side of the device to prevent false indications of diamond. Also, the sensor tip of the DIAMOND BEAM I should be in contact with the stone only (not metal).



4. **Turn off DIAMOND BEAM I:** Slide ON/OFF switch to "OFF" position.
5. **Special Features of DIAMOND BEAM I: Operating Temperature Range for DIAMOND BEAM I: 60F (15C) – 105F (40C). Best results obtained at normal indoor temperatures 65F (18C) – 80F (27C).**  
**Note:** Occasionally, the sensing tip of the DIAMOND BEAM I will need to be cleaned. To clean: lightly touch the tip on a piece of white bond paper. This is the only recommended way to clean the sensing tip. Cleaning in any other way may result in damage to the sensing tip.

**Special Battery Instructions**

This unit is equipped with replaceable Ni Cad batteries. When "Power" light starts flashing this means that the battery is low and batteries will need to be recharged. However if after charging for approximately 2 hours the "Power" light continues to flash, the Ni Cad rechargeable batteries will need to be replaced. The unit will also accept standard non-rechargeable AAA alkaline batteries. However **never use adapter charger when** there are alkaline batteries in place. This will permanently damage the unit. To open the battery door see use push in and push up action as shown.



### SERVICE

If there are any problems regarding the DIAMOND BEAM I, please contact us:

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