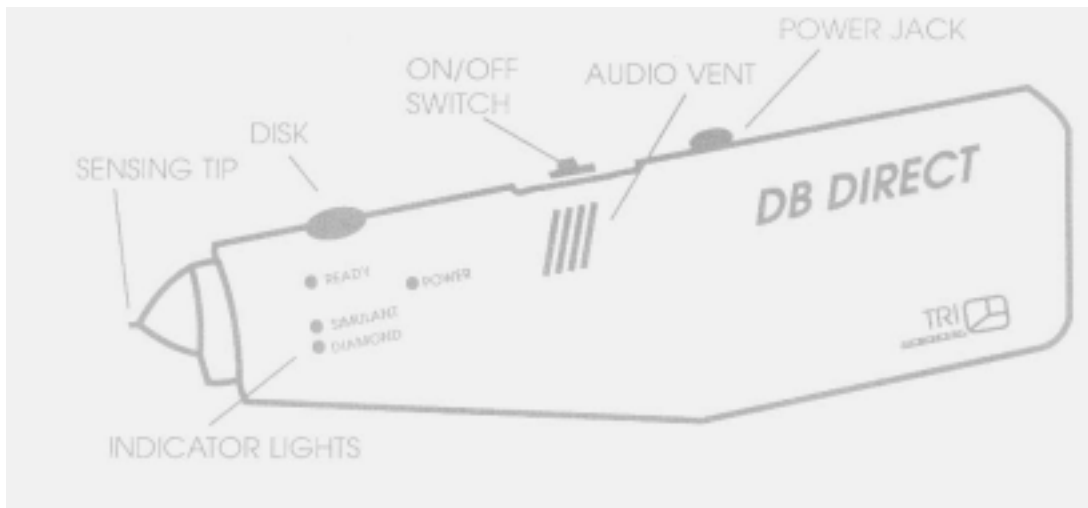


DB DIRECT OPERATING INSTRUCTIONS

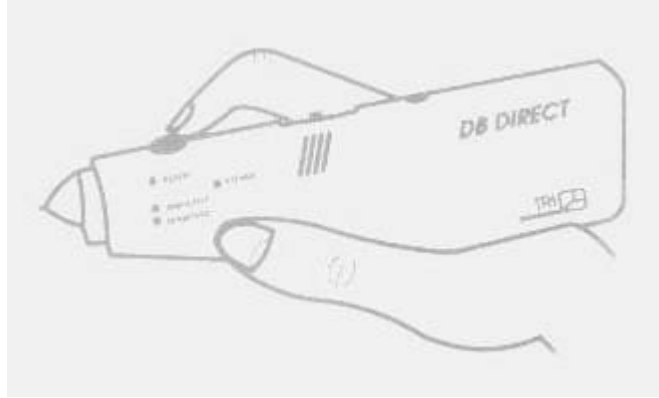


DB DIRECT is a unique instrument which separates real diamonds from imitation diamonds. If the operator of this instrument does not carefully follow the instructions listed below, the end result might be incorrect operation and misleading test results.

OPERATING INSTRUCTIONS

1. **To Begin Operations:** Remove the protective Snap-On cap on the sensor end of the tester to expose the sensor tip. Slide On/Off switch to the "ON" position. After a short delay the red "Ready" light will come on accompanied by a beep, signalling that the unit is on and ready to operate.
2. **Wait Approximately 10 seconds:** The instrument is now warming up. A red "Ready" light will come on signalling 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:** Depress the sensing tip firmly against the table facet of the stone under test. Be sure that you depress the sensing tip on the stone until an audible "click" is heard. If the stone is a diamond, the green "Diamond" light will come on accompanied by a beep. The light and the sound will last for approximately two seconds. If the stone is an imitation, the yellow "Simulant" light will immediately come on and stay on for approximately one second. 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 use.

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. The sensor tip must be in contact with the stone only (not metal).



- 4.
5. **Special Features of DB DIRECT:** The DB DIRECT will test diamonds as small as .01 carats. The DB DIRECT operates directly from electrical outlets, with power supplied by AC/DC adapter.

Operating Temperature Range for DB DIRECT:

60F(15C) - 105F(40C). Best results obtained at normal indoor temperature 65F(18C) - 80F(27C).

Note: Occasionally, the sensing tip of the DB DIRECT 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.

Small Diamond Test

The DB DIRECT will identify small diamonds from .06 carats. Small loose stones can be treated using the small metal plate supplied to hold the stones. In most other cases when the stone is mounted in normal gold, silver, or platinum setting, the setting will provide a sufficient heat sink to obtain accurate reading. In very light or non-metal settings, the tester may give erroneous reading and it is necessary to remove the stone and use the metal plate supplied. Small stones can be secured in the plate using brass wax if necessary.

Special Power Options Instructions

This unit is equipped with standard "AAA" batteries. When "Power" light starts flashing this means that the batteries are low and they will need to be replaced. To replace the batteries open the door of the battery compartment on the back of the unit. Remove and dispose old used batteries and replace them with new "AAA" alkaline batteries

To open the attery door use push-in and push-up action as shown on the image

For the best performance we recommend DURACELL ULTRA "AAA" alkaline batteries.



In addition to "AAA" alkaline batteries the unit will operate with optional AC/DC converter that can be purchased either from our authorized distributor or directly from Tri Electronics Inc.

SERVICE

If there are any problems regarding the DB DIRECT, please contact us:

TRI Electronics Inc.
9570 Ridgehaven Court SUITE "A"
San Diego, CA 92123
Attn. Service Dept.

Phone (858) 571-4881
FAX (858) 571-5404
E-mail: support@trielelectronics.com