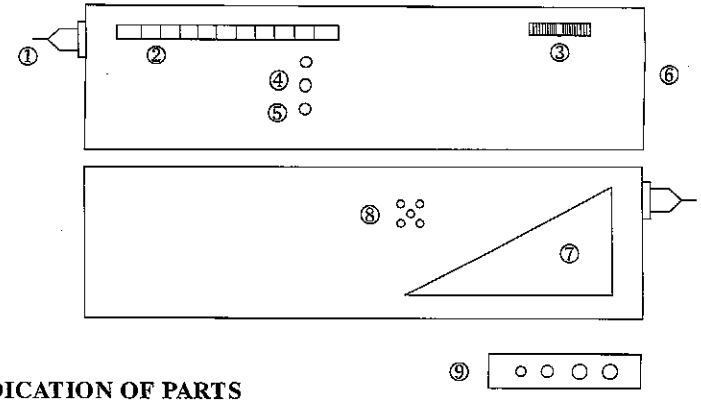
DIAMOND SELECTOR II

INSTRUCTION MANUAL



INDICATION OF PARTS

①. Probe
②. Level Meter
③. Power Switch/ Level Meter Volume
④. Battery lamp
⑤. Ready Lamp
⑥. Battery Compartment
⑦. Electricity Conductive Panal
⑧. Alarm Speaker
⑨. Testing Platform for loose stones

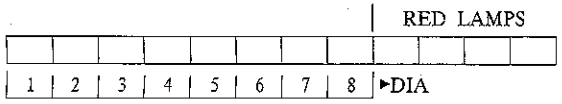
PREPARATION

1. When operating the Diamond Selecter II, use a battery of type 006P 9V.
   The lid of the Battery Compartment ⑥ can be easily slid off if you push it in the direction of the arrow. Hook the battery in accordance with the + & - mack on the battery.
   Insert the battery into the Battery Compartment, setting the hooked part on the lid side of the compartment.
2. Turn on the Power Switch ③.
3. Make sure that the Battery Lamp ④ lights up.
   Note:In case that the Battery Lamp does not light up or it becomes dim, new battery is required; replace the battery with a new one.
4. Wait for about 30 seconds till the Ready Lamp ⑤ lights up.
   Note: The Ready Lamp automatically lights up as soon as the Probe ① is warmed up to the fixed temperature
5. The Power Switch/Level Meter Volume ③ functions as calibrater to adjust the Level Meter ② Turning it toward the direction of ON. the Level Meter Lamps light up from Green to Red in order.

Adjustment of Level Meter ②

With the Level Meter Volume 3, adjust the Level Meter ② in accordance with the size of the tested stone and the surrounding temperature.

To calibrate, refer to the following Calibration Chart and make accurate adjustment of the Level Meter so as to obtain correct indication.



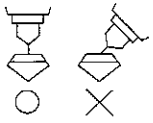
CALIBRATION CHART

(Heat. conductivity is affected by surrounding temperature and stone size.)

		SURROUNDING TEMPERATURE		
		10℃ down 50℉ down	10℃ -30℃ 50℉ -85℉	30℃ up 85℉ up
STONE SIZE (any shape)	0.05ct. down	5	6	7
	0.06ct.- 0.5ct	3	4	5
	0.6ct.- Up	1	2	3

◇Under 0.05ct., set the Level Meter Lamp to light on up to 6
◇From 0.06ct., to 0.5ct., set the Level Meter Lamp to light on up to 4.
◇Over 0.6ct., set the Level Meter Lamp to light on up to 2.
For example. when testing the stone of about 0.3carat in colder temperature, set the Level Metet Lamp to light on 3 and in warmer tcmperatures set it to light on 5.

OPERATION



1. Gently contact the Probe tip ① to the tested stone.
   Too strong touch may bend or bresk the Probe tip.
   As the ○mark of the illustration. contact the Probe tip perpendicularly to the stone.

INTERPRETING THE INDICATION

DIAMONDS	1. Beeping sound(beep-beep-beep) 2. 1~4 pieces of the Red Lamp box of the Level Meter ②light on. (The bigger the size of the stone is, the more pieces of the Red Lamp box of the Level Meter light up.)
DIAMOND SIMULANTS	1. No Beeping sound. 2. No Red Lamps light on.
METAL ALERT	1. Continuous buzzing sound. (The thermal conductivity of the metal is very high and can give the same indication as a Diamond with most Thermal Probes. The Diamond Selector II has a Metal Alert buzzer to warn you when the Probe tip touches metal.) If you hear the Metal Alert buzzing sound. re-touch the Probe tip so as to touch only the tested stone.

OBSERVATION

1. Before starting the test, wash the stone cleanly.
   Oil and dirl dull the sensitivity of the Diamond Selector II.
2. All the tests must be done by your bare hands.
   If your hands have very dry skin or you put on your gloves. the Metal Alert will not function since a normal moisture level of your hands is necessary for operation.
3. Hold the Diamond Selector II so that your fingers touch the Electricity Conductive Panel ⑦ on the back of the unit.
4. In case of stones set in metal (rings, pendants, bracelets, watches, etc.), hold the metal part with your bare hand.
5. In case of loose stones, place the tested stone on the Testing Platform ⑨, then hold the Diamond Selector II in one hand and the Platform with your other hand.
6. When testing a lot of stones continuously, sometimes be sure to check if a certain number of the Level Meter Lamp mentioned on the Calibration Chart remains lighting on as well as to check if the Battery Lamp ④ surely lights on.
7. If you hold the ring with your bare hand for a long time in order to test a lot of meleed stones (very small size stones) set in it, the ring is warmed up by your body temperature and accordingly it may dull the sensitivity of the Diamond Selector II. so sometimes bc sure to leave the ring apart until it gets its normal temperature.
8. Avoid use in front of cooling/heating source of fan, or direct strong wind ad they may affect indication.
9. In case of testing the stone which has been kept in the exrteme low or high temperature. Start the test after it gets its normal temperature.

MAINTENANCE

1. After use, always turn off the Power Switch ③, keep it in the attached vinyl case and avoid dust and humidity.
2. Since the Diamond Selector II is constructed by the precise electric circuits, never attempt to open anything except the lid of the Battery Compartment ⑥.
3. In case of not using the Diamond Selector II for a long time, take out the battery from the unti since the battery may be sometimes corroded.

SPECIFICATIONS

Power source : DC006P 9V X 1
Accessories : Testing Platform for loose stones, Vinyl case, Battery 006P 9V X 1
Net weight : 106g