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USER HANDBOOK

LAPIS ONE

Rechargeable Multi Tester



Gemlogis LAPIS ONE Rechargeable Multi Tester

A - Protective Cap

B - Violet LED

C - Finger Grip

D - Result Window

E - On / Off Button

F - Main Body

G - Charging Inlet

H - Lanyard

I - Universal Charger

J - Metal Stone Rest





OVERVIEW

The LAPIS ONE Rechargeable Multi Tester distinguishes the difference between diamond, moissanite, simulant and metal. The probe tip provides both accurate and reliable results by initially measuring heat then electrical conductivity. LAPIS ONE's probe tip features violet light for enhanced accuracy.

*Blue diamonds are semiconductors due to the substitution of boron impurities in place of carbon atoms. Black diamonds are substituted with graphite or iron inclusions. Both blue and black diamonds will indicate as "Moissanite" or "Metal" on the tester.



FEATURES

1. Different beep to differentiate "Metal", "Diamond" and "Moissanite" on the test results, even without looking at the Results Window.
2. For more reliable test results, LAPIS ONE has a retractable probe tip that ensures consistent pressure against the gemstone during testing.
3. Alerts user when the test tip accidentally comes in contact with metal.
4. No waiting time for subsequent testing.
5. Automatic power off after 10 minutes of inactivity to maximize battery life span.
6. Built in thermos sensor to adapt to ambient temperature for enhanced accuracy.
7. Power by Lithium rechargeable batteries.
8. In the event that probe tip detects Moissanite and Diamond, Violet light automatically will illuminate, if Metal and Simulant probe tip detects Violet LED (B) will not illuminate.

LAPIS ONE may stop working if the batteries are over-charged or when charging the batteries in high temperature ambience



PERFORMING A TEST

1. Test Environment:

The recommended ambient temperature is between 16°C~30°C or 61°F~ 86°F with relative humidity below 80%. Please allow the LAPIS ONE and the gemstone or jewelry to adjust to room temperature prior to performing a test.

Always remember to clean the stone with dry and clean tissue or jewelry cloth to remove any moisture and dust before testing. Extensive cleaning procedures are unnecessary.

2. Powering On

Batteries will need to be charged for at least 2 hours prior to the first use. Simply insert the charger (supplied with this tester) into a suitable electrical outlet. Your LAPIS ONE can be used while the batteries are being charged. A fully charged battery should work continuously for 10 hours.

3. Protective

Cap (A): Remove the protective cap from the probe tip prior to performing the test as shown in (Fig.A) .

(Fig.A)



4. Turn on the Tester:

Press the ON/OFF button (E). Allow approximate 20 seconds for the initial warm up process during which a green LED light will flash continuously in the Results Window. Once the green LED stops flashing and an audible beep is heard, the device is ready for use.

5. Performing a Test:

Hold a mounted jewelry in one hand and the tester in the other (Fig. B). Place the tip of the probe pen against a face of the stone. Press quickly and firmly and avoid touching the metal setting to establish a reading.

(Fig. B)



Be sure that the stone is well mounted and is in contact with its metal setting or mounting. A stone that is very loose can produce an inaccurate reading.

For testing loose gemstones, place the stone on the supplied Metal Stone Rest (J) and secure it with one hand while holding the tester in the other as shown in (Fig. C).

(Fig. C)





HOW TO READ THE RESULTS WINDOW

The indicators in the Results Window (D) are as follows:

The green LED will light up when turn on the Tester.

The power light will not light up when the power is higher than 80%.

The power light will light up pale yellow when the power between 40% to 80%.

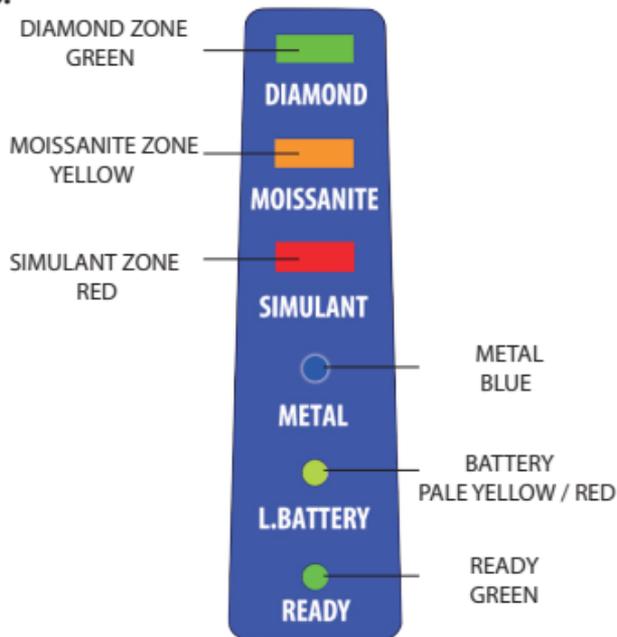
The power light will light up red when the power lower than 40%.

GREEN LED lights up with a continuous beep:
DIAMOND is detected.

YELLOW LED lights up with slow intermittent beep:
MOISSANITE is detected.

RED LED lights up: Simulant is detected.

BLUE LED lights up with fast intermittent beep:
Metal is detected.





IMPORTANT NOTES

Calibration the Tester:

All instruments have been calibrated during the manufacturing process hence further adjustments are unnecessary.

Please note that any damage done to the tester during self-calibration of the instrument will void the factory warranty conditions. Self-calibration should only be attempted by the manufacturer.

The accuracy of test results will be affected if small gemstones overheat due to prolonged contact with the tip of the tester. To achieve optimum accuracy for testing very small gemstones (0.1 carat and below), it is important to allow the gemstone to cool down to room temperature in between tests.

It is not recommended to perform any tests when the low battery indicator lights up. Therefore to prevent any inaccurate readings, fully charged the batteries immediately.

DO NOT TEST A STONE THAT IS WET OR DIRTY:

Dirt grease or other contaminants not visible to the naked eye may exist on the stone. False reading and risk of damaging the probe tip may occur if these procedures are not followed.

In some instances there may be a disproportionate allocation of silicon carbide located on a moissanite; therefore, it is recommended to take a number of tests on several spots of the gemstone by moving the probe tip across the surface of the stone or girdle.

The LAPIS ONE Rechargeable Multi Tester has undergone thorough and extensive laboratory trials to provide clear and reliable readings. However it is not intended to act as an equivalent to gemologist testing under lab environment. Therefore, any questionable analysis should be supported by tests performed by a qualified gemologist.

Under no circumstances should Jubilee Diamond Instrument Limited, the manufacturer or any of its subsidiaries, distributors or third parties be liable for any direct or indirect damage, resulting from the use of this instrument.

The test tip is ESD sensitive. To avoid resetting the system, do not touch the test tip with your fingers.



PROPER MAINTENANCE

The probe tip should be handled with care, especially during the removal of the protective cap from the tester. When the probe is not in use, always replace the protective cap to keep the probe tip from becoming damaged.

Please note warranty condition imposed by Jubilee Diamond Instrument Limited for its products regarding abuse, misuse and unauthorized repairs will be voided. Only defects of the manufacturing and/or part failures are covered by warranty.

International Warranty

Your Gemlogis LAPIS ONE Rechargeable Multi Tester features a 12 MONTHS LIMITED WARRANTY. Defects in the material and workmanship are covered by a one year limited warranty. Batteries and Probe Tip are not covered under this warranty.

This warranty will be voided by unauthorized repairs, misuse, modification and alteration, tampering or accidental damage, neglect or improper use.



The warranty becomes effective from the date of original purchase with a copy of the original invoice (bill of sale).

If the above criteria is not met, the product will automatically be covered by a 30 DAY LIMITED WARRANTY from the date of your purchase.

In the event that the product is no longer available or has been discontinued and warranty coverage is applicable, at the sole discretion of the manufacturer, an equivalent tester may be substituted in place of the defective product.

The purchaser is responsible for all the handling cost (including freight and insurance) for both warranty and non-warranty repairs. Non-warranty repairs may incur additional cost subject to the defect condition.





SPECIFICATIONS OF Rechargeable Multi Tester

Product	LAPIS ONE Rechargeable Multi Tester
Model	GEM-0006-02
Adaptor	ASC-0666-01
Size	171mm x 29mm x 20mm
Weight	70 ± 5g
Operating Time (Hrs):	3hrs non-stop. 1440hrs standby
Operating Temperature	16°C~30°C
Storage Temperature	0°C~45°C



SPECIFICATIONS OF BATTERY

Mode	YT751448
Typical capacity	450mAh
Minimum capacity	410mAh
Charge voltage	8.4V/set
Nominal voltage	7.4V/set
Max discharge current	200mA
Max charge current	500mA
Weight	20±2g
Operating Temperature	Charge:20°C~45°C Discharge : 0°C~45°C
Storage Temperature	0°C~45°C



SPECIFICATIONS OF ADAPTOR

Mode	ASC-0666-01
Input Voltage	90~240Vac
Input Frequency	50 / 60HZ
Power Output	4.2W
No Load Voltage output	8.3~8.5VDC
Charging current range	500mA
Fuse Type	T0.63AL 250V(0.63A 250V Fast Acting Fuse)
Operating Temperature	0°C~40°C
Storage Temperature	-20°C~45°C