diamond selector 2 manual

Diamond Selector 2 Manual

The Diamond Selector 2 is an essential tool for anyone working with diamonds, whether in the jewelry industry, gemology, or for personal use. This device is designed to help users accurately assess and identify the authenticity of diamonds, distinguishing them from simulants like cubic zirconia or moissanite. This article serves as a comprehensive guide to the Diamond Selector 2, covering its features, operation, care, and troubleshooting.

Introduction to the Diamond Selector 2

The Diamond Selector 2 is a handheld electronic device that utilizes advanced technology to measure the thermal conductivity of stones. It operates on the principle that genuine diamonds have a unique thermal conductivity that differs from synthetic stones. This makes the Diamond Selector 2 an invaluable tool for retailers, appraisers, and collectors.

Key Features

1. Compact Design: The Diamond Selector 2 is lightweight and portable, making it easy to carry and use in various settings.
2. Digital Display: The device features a clear digital display that shows the results of the conductivity test, allowing for quick and easy readings.
3. Versatility: It can test both loose diamonds and mounted stones, making it suitable for a wide range of applications.
4. Battery Operated: The Diamond Selector 2 is powered by batteries, ensuring that it is always ready for use without the need for an external power source.
5. Calibration Function: The device includes a calibration feature, ensuring accurate measurements are obtained every time it is used.

How to Use the Diamond Selector 2

Using the Diamond Selector 2 is straightforward, but it is important to follow the steps carefully to ensure accurate results.

Step-by-Step Instructions

1. Prepare the Device:
- Ensure the Diamond Selector 2 is powered on by pressing the power button.
- Allow the device to warm up for a few seconds until the display shows "0," indicating it is ready for testing.

2. Calibration:
- For optimal accuracy, it is advisable to calibrate the device before each use. This can usually be done by pressing the calibration button and following the on-screen instructions.

3. Testing the Stone:
- Place the tip of the probe against the surface of the diamond or suspected diamond.
- Press the probe down gently to ensure good contact with the stone.
- Wait for a few seconds for the device to measure the thermal conductivity.

4. Reading the Results:
- The digital display will show a reading. Typically, a reading in the range of "0.5 - 1.5" indicates a diamond, while lower readings indicate a simulant.
- If the device shows "ERR," it may indicate that the stone is not a diamond or that the surface contact is inadequate.

5. Post-Testing:
- Remove the probe from the stone and turn off the device after use to conserve battery life.
- Store the Diamond Selector 2 in a safe place, ideally in a protective case.

Understanding the Results

The readings from the Diamond Selector 2 can vary based on several factors, including the type of stone being tested and the environmental conditions.

Interpreting the Readings

- Diamond: A reading typically above 1.0 suggests that the stone is likely a diamond.
- Cubic Zirconia: A reading below 0.5 generally indicates that the stone is a cubic zirconia or another simulant.
- Moissanite: Moissanite can sometimes give high readings, making it essential to use additional tests to confirm the identity of the stone.

Factors Influencing Results

- Temperature: The thermal conductivity of diamonds is affected by temperature. Ensure that the device and the stone are at room temperature for accurate readings.
- Surface Condition: Dirt or oils on the stone can affect the test results. Clean the diamond surface before testing.
- Type of Mounting: If testing a mounted stone, ensure that the probe makes good contact with the stone, as prongs and settings can interfere with readings.

Care and Maintenance of the Diamond Selector 2

To ensure the longevity and accuracy of the Diamond Selector 2, regular care and maintenance are necessary.

Cleaning the Device

- Wipe the probe with a soft, lint-free cloth after each use to remove any residue that may affect future tests.
- Avoid using harsh chemicals or abrasive materials that could damage the device.

Battery Replacement

- The Diamond Selector 2 typically uses AAA batteries. Replace batteries when the device shows low battery warnings or if it does not power on.
- Always dispose of batteries responsibly according to local regulations.

Storage Recommendations

- Store the device in a protective case to prevent damage from drops or impacts.
- Keep it in a cool, dry place to avoid moisture buildup, which can affect electronic components.

Troubleshooting Common Issues

Even with careful use, you may encounter issues with the Diamond Selector 2. Here are some common

problems and solutions.

Device Does Not Power On

- Check Batteries: Ensure that the batteries are installed correctly and are not depleted.
- Inspect Connections: Look for any corrosion or damage in the battery compartment.

Inconsistent Readings

- Calibration: Recalibrate the device and ensure it is at room temperature.
- Surface Contact: Check that the probe is making proper contact with the stone.

Display Shows Error Messages

- Refer to the Manual: Consult the user manual for specific error codes and recommended solutions.
- Contact Support: If issues persist, reach out to the manufacturer for assistance.

Conclusion

The Diamond Selector 2 is an invaluable tool for jewelers, gemologists, and anyone interested in verifying the authenticity of diamonds. By understanding its features, operation, and maintenance, users can ensure accurate assessments and prolong the life of the device. Whether you are a professional or a hobbyist, investing time in learning how to use the Diamond Selector 2 effectively can enhance your diamond evaluation skills and confidence in your findings.

Frequently Asked Questions

What is the purpose of the Diamond Selector II manual?

The Diamond Selector II manual provides instructions on how to properly use the device for testing the authenticity of diamonds and other gemstones.

How do I calibrate the Diamond Selector II?

To calibrate the Diamond Selector II, turn it on and press the button while placing the tip on a diamond. The indicator should reach the correct level for a genuine diamond; if not, refer to the manual for specific calibration steps.

What types of stones can the Diamond Selector II test?

The Diamond Selector II can test diamonds, moissanite, and other gemstones, but it is most accurate for distinguishing between diamonds and synthetic alternatives.

Is the Diamond Selector II portable?

Yes, the Diamond Selector II is compact and lightweight, making it easy to carry around for on-the-go testing of gemstones.

What should I do if the Diamond Selector II gives an incorrect reading?

If you receive an incorrect reading, ensure the tip is clean, the device is calibrated, and the stone is at room temperature. Refer to the manual for troubleshooting steps.

Can I use the Diamond Selector II on mounted stones?

It is generally not recommended to use the Diamond Selector II on mounted stones, as the setting may interfere with the readings. The manual provides guidance on testing loose stones for best results.

What is the battery life of the Diamond Selector II?

The Diamond Selector II typically has a long battery life, but the manual recommends checking the battery level regularly and replacing it as needed to ensure accurate testing.

Where can I find a replacement for the Diamond Selector II?

Replacement units or accessories for the Diamond Selector II can typically be found at jewelry supply stores, online marketplaces, or directly from the manufacturer as indicated in the manual.

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