

# Content

(English Version)

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## I. Disclaimers, Exclusions and Limitations of Liability

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PLEASE READ AND NOTE PRESIDIUM WARRANTY TERMS AND CONDITIONS as stated in the warranty card. Presidium warranty for its testers are subject to proper use by its users in accordance with all the terms and conditions as stated in the relevant user handbook and shall cover only manufacturing defects.

Due to continuous product improvement, Presidium reserves the right to revise all documents including the right to make changes to the handbook without notice and without obligation to notify any person of such revisions or changes. Users are advised to check Presidium's website from time to time <http://www.presidium.com.sg/>

Presidium shall not be responsible for any damage or loss resulting from the use of this tester or handbook.

Under no circumstances shall Presidium, its manufacturer or any of its subsidiaries, licensors, distributors, reseller, servant and/or agent be liable for any direct or indirect damages, resulting from the use of this tester.

**TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, under no circumstances shall Presidium, its manufacturer or any of its subsidiaries, licensors, distributors, reseller, servant and/or agent be responsible for any special, incidental, consequential or indirect damages howsoever caused.**

The tester and/or Adamas by Presidium, and/or Adamas referred to in this handbook is provided and/or sold on an "as is" basis. Except as required by applicable law, no warranties of any kind either expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

## II. About this Book

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Thank you for purchasing Adamas by Presidium (“Adamas” or “tester”).

This handbook is designed to help you set up your tester and describes all you need to know about how to use your tester accurately and take care of it in line with its requirements. Please read these instructions carefully and keep them handy for future reference.

This book also contains the terms and conditions in relation to the use of the tester including the **Disclaimer, EXCLUSION and Limitation of Liability clauses stated above in Section I.**

### III. About Adamas by Presidium

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Adamas offers a revolutionary diamond testing experience. It allows users to replace the probe tip at any time, without the inconvenience of returning the device to the manufacturer whenever the probe tip gets damaged – whether it is bent or broken. The usual scenario of incurring freight charges and 2-3 weeks of downtime no longer applies with Adamas. Users can simply replace the probe tip and do a calibration of the device at any time, to ensure its accuracy.

Adamas also presents the world's first micro tip with an enhanced and refined probe tip of just 0.45mm to measure colorless diamonds and diamond meleees as small as 0.01ct. The micro tip comes as an optional accessory with Adamas.

Created with the user in mind, Adamas features a stylish ergonomic design, which provides a 360° textured chrome grip as well as a balanced weight throughout the tool so as to increase your handling comfort.

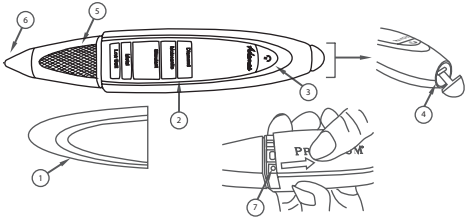
Adamas has been subjected to thorough and extensive laboratory tests, and gives a clear and reliable reading of the gemstone when tested under proper use.

Adamas features the following:

- Replaceable probe tip, the first in the industry
- Micro probe tip, the first in the world to measure diamond meleees as small as 0.01ct
- Retractable tip, ensuring constant pressure between probe tip and gemstone for enhanced accuracy
- Industry's thinnest and finest probe tips at 0.67mm and 0.45mm (micro tip) for respectively testing on gemstones from 0.02ct and up, and as small as 0.01ct
- Calibration disk for calibration to ensure accuracy
- Power via USB
- Metal alert buzzer to ensure the probe tip is in contact with the gemstone during testing
- No waiting time between tests
- Stylish ergonomic design
- International voltage compatibility
- Low battery indicator
- Automatic power-off after 2 minutes of inactivity

**Included in your package:**

- Adamas by Presidium
- Metal stone rest
- Calibration disk
- USB cable
- Quick Guide
- QR Code Card



1	Protective Cap
2	Display with LED Illumination
3	Power Button and "Ready" Display
4	USB Port
5	Textured Chrome Plate Grip
6	Replaceable Magnetic Probe Tip (Magnetic Micro Tip sold separately)
7	Calibration Activation Button

#### IV. IMPORTANT NOTICE

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- Due to the testing methodology, this tester is not intended to test for any colored diamonds, such as blue and black diamonds, as the electrical conductivity of these colored diamonds differs from colorless diamonds.
- Keep the tester dry. Precipitation and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your tester gets wet, remove the battery, and allow the tester to dry completely before replacing it.
- Do not use, store or expose the tester in dusty, dirty areas. Its moving parts and electronic components may get damaged.
- Do not use, store or expose the tester in hot areas. High temperatures can damage or shorten the life of the tester, damage batteries, and warp or melt certain plastics.
- Do not use, store or expose the tester in cold areas. When the tester returns to its normal temperature, moisture can form inside the tester and damage electronic circuit boards.
- Do not attempt to open the tester other than as instructed in this handbook.
- Do not drop, knock, or shake the tester. Rough handling may break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the tester.
- Do not paint the tester. Paint can clog the moving parts and prevent proper operation.

If the tester is not working properly, kindly contact Presidium Customer Service at [service@presidium.com.sg](mailto:service@presidium.com.sg) or:

Presidium Instruments Pte Ltd  
Unit 7, 207 Henderson Road  
Singapore 159550  
Attn: Customer Service Executive

## 1. Getting started with Adamas

### Powering up your Adamas

This tester can be powered by either the use of a Presidium Universal Adaptor (optional item sold separately) or through the use of batteries. If the adaptor is used, connect one end of the USB cable to the adaptor and the other end to the micro USB port (**Fig.1.01**). Please ensure that only adaptor supplied by Presidium is being used. Alternatively, you may connect the USB cable to your computer to power up your Adamas.

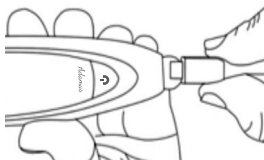


Fig. 1.01

Alternatively if batteries are used, please slide open the battery cover with the "Presidium" wording on top (**Fig. 1.02**). Use 3x AAA batteries and take note of the positive (+) and negative (-) directions of the batteries when inserting them into the tester (**Fig. 1.03**). The use of alkaline batteries is preferred as it should generally give approximately 2.5 hours of continuous operation.

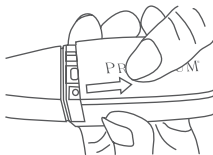


Fig. 1.02

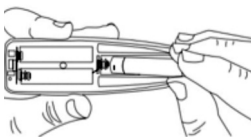


Fig. 1.03

## Turning on your Adamas

Remove the protective cap from the tester (**Fig. 1.04**).

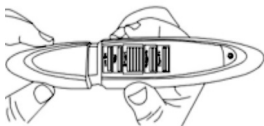


Fig. 1.04

Press the Power button located at the lower end close to the micro USB port (**Fig. 1.05**). Wait for about 25 seconds for the tip to warm up to the predetermine tip temperature. Whilst in the warming up period, the “Ready” LED that is located near to the power button will blink continuously.

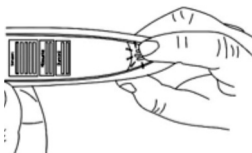
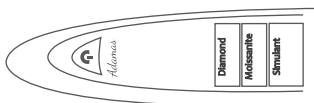


Fig. 1.05

The light will stop blinking when it is ready for use (**Fig. 1.06**).



*Ready Mode*

Fig. 1.06

**NOTE:** The tester will shut down automatically after 2 minutes of inactivity accompanied with a beep.



## Calibration

1. When the tester is switched off, remove the magnetic tip by gently pulling it out, as shown in **Fig. 1.07**.

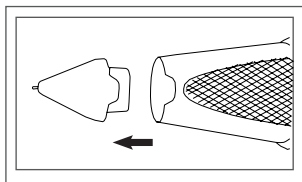


Fig. 1.07

2. To insert a new magnetic tip, position the magnetic tip as shown in **Fig. 1.08**, and slide it into the main body to secure it magnetically. as shown in **Fig. 1.09**.

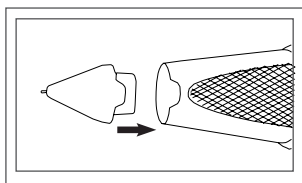


Fig. 1.08

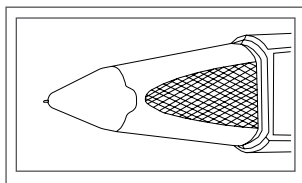


Fig. 1.09

3. Press the Power Button to switch on the tester. Once the READY Light stops blinking, the tester is ready to enter calibration mode as shown in **Fig. 1.10**. This process may take up to 25 seconds. If the READY Light continues to blink after 25 seconds, the probe tip may not be positioned properly. Kindly repeat the procedure from Steps 1 and 2.

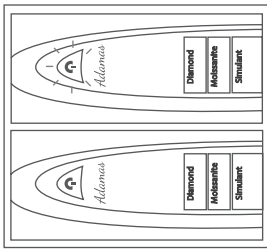


Fig. 1.10

4. Remove the Battery Cover to reveal the Calibration Activation Button; a hole at the bottom left edge, as shown in **Fig. 1.11**.

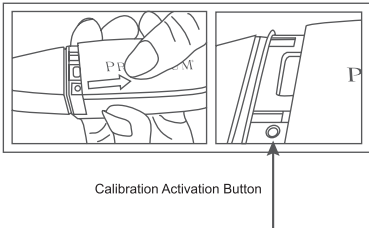


Fig. 1.11

5. Use a fine-point object (e.g. 2mm tip screw driver) to press and release the Calibration Activation Button (**Fig.1.12**). The tester will enter calibration mode with a beep sound. All Indicator Lights (excluding Metal and Low Batt) will light up in running lights mode. The tester is now ready to start calibration.

\*Note : Ensure that the probe tip is not resting against any object before pressing the Calibration Activation Button.



Fig. 1.12

6. To begin calibrating, carefully press the Probe Tip onto the Calibration Disk perpendicularly as shown in **Fig. 1.13**. Ensure that the Probe Tip remains fully depressed during this process, to achieve consistent pressure on the tip.

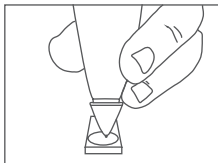


Fig. 1.13

7. During calibration, the Lights Simulant, Moissanite and Diamond Indicator lights will each gradually light up, accompanied by rhythmic beeping, with Diamond LED lights indicating the ending phase of the calibration, as shown in **Fig. 1.14**.

\*Note : Do not lift up the tip from the Calibration Disk. Continue to hold the position.

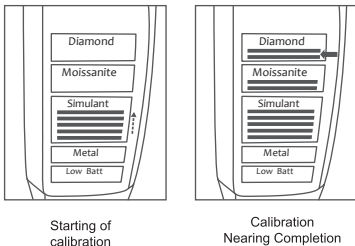


Fig. 1.14

8. When calibration is complete, the Indicator Lights will be fully lit and a long beep will sound, followed by a unique dual beep. This indicates that the tester is fully calibrated and ready to use.

## IMPORTANT NOTICE

### Troubleshooting

<b>Device Behaviour</b>	<b>Potential Reason</b>	<b>Action to take</b>
Ready Light Blinking	Tip is heating up	Wait 25 seconds
	Tip not well connected	Remove and re-insert tip, making sure it is fixed on well
Ready Light Blinking accompanied with continuous beep	Unable to detect probe tip / probe tip not connected properly	Reconnect the probe tip / change new probe tip
All Lights are Running	Device in calibration mode	Device ready to begin calibration
	Device was not calibrated properly; either the pressure on calibration disk was not sufficiently consistent, or the tip lost contact with the calibration disk	Restart calibration and make sure the pressure is consistent and that the tip is fully depressed and maintains contact with the calibration disk throughout the process
	New magnetic tip detected, device in calibration mode	Device ready to begin calibration
Shuts Down Automatically	Batteries are too low. Users are advised against using weak batteries as this will affect the calibration accuracy.	Change Batteries

If in doubt, kindly refer to online calibration video at [www.presidium.com.sg](http://www.presidium.com.sg) or feel free to contact us at [service@presidium.com.sg](mailto:service@presidium.com.sg)

## Recommended Operating Conditions

The gemstone should be clean and dry before testing. Elaborate cleaning procedures are not normally necessary (**Fig. 1.15**).

The recommended testing temperature is between 18°C – 27°C or 65°F – 80°F.

Please allow the gemstone or jewelry piece to adjust to room temperature prior to testing. Exposure and/or operating the tester outside the recommended testing temperatures will affect the result and performance of the tester.



Fig. 1.15

## Battery Information

Do not leave worn out batteries in the battery compartment as the batteries may corrode or leak and damage the circuitry of tester. Batteries should be removed when the tester is expected to be stored for an extended period of time.

To prevent inaccurate reading, replace with new batteries as soon as the low battery indicator lights up or starts to blink. A test should not be performed when the battery power is low or weak.

Batteries do not have to be removed when the USB Universal Adaptor is used.

## Cleaning of gemstone prior to testing

Prepare a clean tissue or jewelry cloth. Carefully retrieve the gemstone with tweezers and place the gemstone face down on its table facet (**Fig. 1.16**).

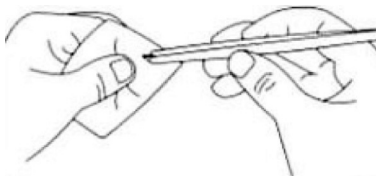


Fig. 1.16

Gently rub the table of the gemstone against the tissue/ jewelry cloth. (**Fig. 1.17**).



Fig. 1.17

## 2. Performing a test with your Adamas

Depress the tip of the probe against the gemstone. Ensure the tip is fully depressed for consistent pressure between the tip and the gemstone.

### For mounted jewelry or gemstones:

Hold the jewelry or gemstone with one hand and the tester with the other hand (**Fig. 2.1**). For proper operation of the tester, the thumb and index finger must always be placed on the grip.



Fig. 2.1

Care should be taken when testing mounted jewelry. Users must ensure that the stones are securely mounted before conducting the test as the gap between the stone and setting may lead to an inaccurate reading.

### For loose gemstones:

Place the gemstone on the metal stone rest and hold the metal stone rest with one hand while holding the tester with the other hand (**Fig. 2.2**).



Fig. 2.2

The probe tip must be placed at a right angle or perpendicular to the facet of the gemstone for an accurate reading.

Tests should be conducted on the table of the gemstone. In the event of any doubt, kindly test on the girdle of the gemstone instead.

For proper operation of the tester, fingers must be placed on the grip at all times.

To achieve optimum test accuracy involving very small mounted gemstones (1.2mm exposed diameter and below), it is extremely important that no contact is made on any mounted/ metal part of the jewelry piece. The test results will likely result in confusion as metal is highly conductive and results may indicate that Moissanite is detected instead.

To achieve optimum accuracy for test involving very small gemstones (10 points and below), it is important to allow the gemstone to cool down before subsequent tests.

It is advisable to take multiple readings if any doubt exists regarding the test results indicated.

### **Cleaning of probe tip**

Please note that if the tester is being used for the first time, or if the tester has not been used for a week, it is advisable to clean the probe tip using a piece of paper to attain a consistent and accurate reading.

- Ensure the unit is switched off
- Hold the grip with the probe tip forming a right-angle (90 degrees) with any paper or a stone rest (as provided). Gently move in a circular motion without retracting the tip (**Fig. 2.3**).
- Repeat the same motion several times. The cleaning process is completed and the tester is now ready for use



Fig. 2.3



### 3. Reading Test Results on your Adamas

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The test results are indicated as follows:

- a) Simulant Indicator LEDs light up:
  - Gemstone with high thermal conductivity such as sapphire or topaz is detected
  - Gemstone with low thermal conductivity such as glass or cubic zirconia will not give any reading on the tester
  
- b) Moissanite Indicator LEDs light up:
  - Moissanite is detected
  
- c) Diamond Indicator LEDs light up:
  - Diamond is detected with a long audible beep
  
- d) Metal Indicator LED lights up:
  - When the probe tip touches metal or conductive material besides Moissanite

NOTE: For stones with lower thermal conductivity, the Presidium Gemstone Tester/ Color Stone Estimator (PGT/CSE) or the Presidium Duo Tester (PDT), which detect a wider simulant range can be used to further differentiate the type of simulants.

#### **4. Taking care of your Adamas**

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The probe and wire tip is extremely sensitive and should be handled with care, especially during the removal of the protective cap from the tip. Always replace the protective cap when the tester is not in use. Caution should be taken so as not to damage the probe and wire tip.

Your tester is a product of extensive design and craftsmanship, please treat it with care.

Thank you for taking time to go through the user handbook, which will enable you to understand your recent purchase better.

Presidium also recommends that you register your warranty by sending the warranty registration card to us or by registering online at <http://www.presidium.com.sg/>