



DIAMONDDECT 5 TAIDIAM TECHNOLOGY (ZHENGZHOU) CO., LTD

ASSURE PARTNER | ASSURE TEST NUMBER: 529748

DiamondDect 5 is a desktop diamond verification instrument for mounted and loose stones. DiamondDect 5 is designed to separate diamonds from HPHT synthetic diamonds. DiamondDect 5 is manually operated but gives an automatic test result. DiamondDect 5 is suitable for an environment where you need to test both mounted and loose diamonds e.g. dealers, diamond and jewellery manufacturers, retailers, buyers and gemmological laboratories.

5,730 USD (February 2019)

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How does the instrument operate?

The user manually places the loose or mounted stone inside the test chamber of the instrument. To start the testing, the user closes the test chamber and press the start button.

The DiamondDect 5 automatically makes a measurement and displays one of the following results:

- ◇ Natural
- ◇ Refer

The 'Refer' results could contain potential synthetic diamonds and diamonds. These referrals shall be tested further for full verification. Taidiam recommends further testing by a gemmological laboratory.



20cm (w) x 23cm (d) x 29cm (h)

7kg

Stone Capabilities

Weight of stones: **0.005 ct - 10 ct**
 Size of stones: **1mm - 10mm**
 Colour of stones: **D-J**
 Shape of stones: **ALL**
 Synthetic diamonds: **HPHT synthetic diamonds only**
 Diamond simulants: **NO**
 Jewellery: **YES**

Instrument Capabilities

Automatically feed the stones? **NO**
 Automatically interpret the results? **YES**
 Automatically dispense the stones? **NO**
 Detect or refer synthetic diamonds? **REFER**
 Multiple stones at one time? **YES**
 Training? **NO**

ACCORDING TO TAIDIAM TECHNOLOGY

Test Procedure

DiamondDect 5 was tested in accordance with the Diamond Verification Instrument Standard with the test protocol for instruments that separate diamonds from synthetic diamonds (Operation Category 1).

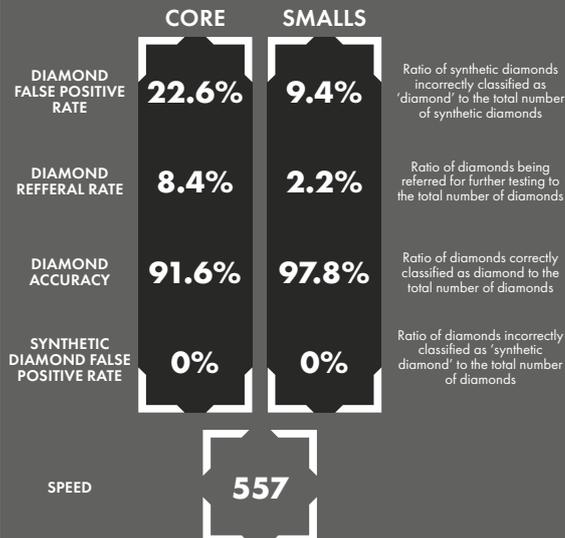
The tests took place at the independent laboratory UL in Canton, Massachusetts, United States.

DiamondDect 5 was tested with the ASSURE Core Sample (0.02 ct to 0.20 ct in D-J colour) and ASSURE Smalls Sample (0.005 ct to 0.02 ct in D-J colour). Both sample sets consist of 1,000 diamonds and 200 synthetic diamonds.

Please note that DiamondDect 5 can only process HPHT synthetic diamonds, however, the instrument has still been tested on samples which includes CVD synthetic diamonds as well.

The tests were performed by a novice operator.

Test Results



The summary test report issued by UL can be [found here](#).
 The report was issued 05/2019.

Safety Credentials

The most important requirement when selecting a Diamond Verification Instrument is that the instrument meets the safety regulations of your local jurisdiction. Before purchasing an instrument, request that the manufacturer verifies that their instrument complies with all regulatory requirements.

[Click here](#) to download the safety testing credential for DiamondDect 5 submitted by Taidiam. Please note that the safety testing credentials have not been validated through the ASSURE Program.