ASSURE TESTED

DiamondDect 5

DiamondDect 5 is a desktop diamond verification instrument for mounted and loose stones, designed to separate diamonds from HPHT synthetic diamonds. DiamondDect 5 is manually operated but gives an automatic test result.

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

◊ Natural
◊ Refer

The 'Refer' results could contain potential synthetic diamonds and diamonds. These referrals should be tested further for full verification.

Stone Testing Capabilities

Weight of stones:	**0.005 ct - 10 ct**
Size of stones:	**1 mm - 10 mm**
Colour of stones:	**D-J**
Shape of stones:	**All**
Synthetic diamonds:	**HPHT synthetic diamonds only**
Diamond simulants:	**No**
Mounted stones:	**Yes** not yet ASSURE Tested

Instrument Capabilities

Automated feed:	**No**
Automated results:	**Yes**
Automated dispense:	**No**
Detect or Refer (synthetic diamonds)	**Refer**
Detect or Refer (diamond simulants)	**N/A**
Multiple stones at once:	**Yes**
Training required:	**No**

Instrument Performance

The results demonstrate the performance of the DiamondDect 5 tested by a novice operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate *Optimal rate 0%*	22.6%	9.4%
Diamond Referral Rate *Optimal rate 0%*	8.4%	2.2%
Diamond Accuracy Rate *Optimal rate 100%*	91.6%	97.8%
Synthetic Diamond False Rate *Optimal rate 0%*	0%	0%
Speed *Stones tested per hour*	557	557

Instrument Specifications

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

7 kg

5,730 USD February 2019

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