



J.Detect 9000



Overview

J.Detect 9000 is a desktop diamond verification instrument for loose and mounted diamonds, designed to separate synthetic diamonds from diamonds. J.Detect 9000 is manually operated but gives semi-automatic test interpretation.

J.Detect 9000 automatically makes a measurement and displays one of the following results:

- i) Diamond
- ii) Refer

In case of query, J.Detect 9000 software has a troubleshoot option that connects the user with the DRC Techno Support team to get an instant response.

Stone Testing Capabilities

Weight range: **0.003 ct+**
 Size of Stones: **0.7 mm+**
 Colour range: **D-K**
 Stone shape: **All**
 Diamond simulants: **No**
 Mounted stones: **Yes** not yet ASSURE tested

Instrument Capabilities


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

Instrument Performance

The results demonstrate the performance of the J.Detect 9000 tested by a novice operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate <i>Optimal rate 0%</i>	7.0%	1.0%
Diamond Referral Rate <i>Optimal rate 0%</i>	14.5%	15.5%
Diamond Accuracy Rate <i>Optimal rate 100%</i>	85.5%	84.5%
Speed <i>Stones tested per hour</i>	527	527

Instrument Specifications

 31.5 cm (W) x 27.5 cm (D) x 38 cm (H)

 14 kg

Price: 9,999 USD August 2019

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