



J-Smart



Overview

J-Smart is a desktop diamond verification instrument for loose and mounted stones designed to separate synthetic diamonds from diamonds. J-Smart is manually operated and gives an automatic test result.

J-Smart automatically makes a measurement and displays one of the following results:

- i) Diamond
- ii) Synthetic diamond
- iii) Check with fluorescent light
- iv) Clean and recheck

In case of query, J-Smart 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): **Detect**
 Detect or Refer (diamond simulants): **N/A**
 Multiple stones at once: **Yes**
 Training required: **No**

Instrument Performance

The results demonstrate the performance of the J-Smart tested by an expert operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate <i>Optimal rate 0%</i>	10.6%	4.7%
Diamond Referral Rate <i>Optimal rate 0%</i>	N/A	N/A
Diamond Accuracy Rate <i>Optimal rate 100%</i>	88.0%	96.8%
Speed <i>Stones tested per hour</i>	1,103	1,103

Instrument Specifications

 41 cm (W) x 39.5 cm (D) x 47.5 cm (H)

 30 kg

Price: 22,499 USD August 2019

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