J-Certain

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

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

◊ Diamond
◊ Synthetic diamond
◊ Check with fluorescent light

Stone Testing Capabilities

Weight of stones:	**0.002 ct - 10 ct**
Size of stones:	**1 mm+**
Colour of stones:	**D-Z**
Shape of stones:	**All**
Diamond simulants:	**No**
Mounted stones:	**Yes** not yet ASSURE Tested

Instrument Capabilities

Automated feed:	**No**
Automated results:	**No**
Automated dispense:	**No**
Detect or Refer (synthetic diamonds)	**Detect**
Detect or Refer (diamond simulants)	**N/A**
Multiple stones at once:	**Yes**
Training required:	**Yes** review of user manual and operation video

Instrument Performance

The results demonstrate the performance of the J-Certain tested by a novice operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate *Optimal rate 0%*	19.6%	5.8%
Diamond Referral Rate *Optimal rate 0%*	0.2%	0.3%
Diamond Accuracy Rate *Optimal rate 100%*	99.7%	99.3%
Speed *Stones tested per hour*	792	792

Instrument Specifications

43 cm (w) x 34 cm (d) x 52 cm (h)

22 kg

13,999 USD May 2019

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