



The Sherlock Holmes Detector



The Sherlock Holmes Detector is a portable desktop diamond verification instrument for loose and mounted stones designed to separate diamonds from synthetic diamonds. The Sherlock Holmes Detector is manually operated and requires an operator to interpret the test results.

The Sherlock Holmes Detector captures an image and based on visual analysis of the images, and support from a decision tool, the operator can conclude one of the following results:

- ◇ Diamond
- ◇ Synthetic diamond
- ◇ Refer

The 'Refer' result could contain potential synthetic diamonds and diamonds. Yehuda recommends further testing with regular UV light or by a gemmological laboratory.

Stone Testing Capabilities

Weight of stones:	All
Size of stones:	All
Colour of stones:	D-K
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
Multiple stones at once:	Yes
Training required:	No review user manual

Instrument Performance

The results demonstrate the performance of the Sherlock Holmes Detector tested by an expert operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate <i>Optimal rate 0%</i>	0%	0%
Diamond Referral Rate <i>Optimal rate 0%</i>	N/A	N/A
Diamond Accuracy Rate <i>Optimal rate 100%</i>	97.5%	97.8%
Speed <i>Stones tested per hour</i>	530	530

Instrument Specifications

 15 cm (w) x 24 cm (d) x 15 cm (h)

 2.2 kg

6,495 USD February 2019

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