ASSURE TESTED

Screen-I

Screen-I is a portable diamond verification instrument for loose and mounted diamonds designed to separate diamonds from synthetic diamonds. Screen-I is manually operated but gives an automatic test result.

Screen-I automatically displays one of the following results:

◊ Diamond
◊ CVD/HPHT

'CVD/HPHT' result could contain synthetic diamonds and natural diamonds, and these have been classified as 'referrals'. These referrals should be tested by a gemmological laboratory for full verification.

Stone Testing Capabilities

Weight of stones:	**0.01 ct - 12 ct**
Colour of stones:	**D-J**
Shape of stones:	**All**
Diamond simulants:	**No**
Mounted stones:	**Yes** open back designs, 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:	**No**
Training required:	**No**

Instrument Performance

The results demonstrate the performance of the Screen-I tested by a novice operator:

	Core Sample
Diamond False Positive Rate *Optimal rate 0%*	0%
Diamond Referral Rate *Optimal rate 0%*	10.5%
Diamond Accuracy Rate *Optimal rate 100%*	89.5%
Speed *Stones tested per hour*	283

Instrument Specifications

12.6 cm (l) x 7.6 cm (w) x 6.5 cm (h)

0.174 kg

549 USD October 2019

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