DiamondSure

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

The instrument tests individual stones and automatically displays one of the following results:

◊ Pass
◊ Pass (check with thermal pen)
◊ Refer for further tests
◊ Refer for further tests (type Ib component)
◊ Refer for further tests (type II)
◊ Refer for further tests (possible type IaB)
◊ Refer (test for moissanite)

The 'Refer' results could contain potential synthetic diamonds, diamond simulants and diamonds. These referrals should be tested further for full verification.

Stone Testing Capabilities

Weight of stones:	**0.05 ct - 10 ct**
Colour of stones:	**D-J** failsafe across all colours although natural fancy colours will give a higher referral rate)
Shape of stones:	**All**
Diamond simulants:	**Yes** not yet ASSURE Tested
Mounted stones:	**Yes** 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 DiamondSure tested by a novice operator:

	Core Sample
Diamond False Positive Rate *Optimal rate 0%*	0%
Diamond Referral Rate *Optimal rate 0%*	4.7%
Diamond Accuracy Rate *Optimal rate 100%*	95.3%
Speed *Stones tested per hour*	193

Instrument Specifications

 17 cm (w) x 26 cm (d) x 10 cm (h)

 3.5 kg

18,200 USD February 2019

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