GIA iD100

GIA iD100 is a portable desktop diamond verification instrument for mounted and loose stones designed to separate diamonds from synthetic diamonds and diamond simulants. GIA iD100 is manually operated but gives an automatic test result.
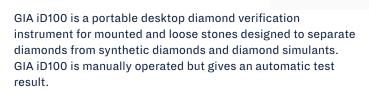
The instrument tests individual stones and automatically displays one of the following results:

◊ Pass
◊ Refer

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

Room light calibration is needed once per day or whenever the environmental lighting conditions are changed.

Stone Testing Capabilities

Weight of stones:	**0.005 ct+**
Size of stones:	**0.90 mm+**
Colour of stones:	**D-J**
Shape of stones:	**All**
Diamond simulants:	**Yes**
Mounted stones:	**Yes** not yet ASSURE Tested

Instrument Capabilities

Automated feed:	**Yes**
Automated results:	**No**
Automated dispense:	**Yes**
Detect or Refer (synthetic diamonds)	**Refer**
Detect or Refer (diamond simulants)	**Refer**
Multiple stones at once:	**No**
Training required:	**Yes**

Instrument Performance

The results demonstrate the performance of the GIA iD100 tested by a novice operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate *Optimal rate 0%*	0%	0%
Diamond Referral Rate *Optimal rate 0%*	3.3%	4.2%
Diamond Accuracy Rate *Optimal rate 100%*	96.7%	95.8%
Speed *Stones tested per hour*	183	183

Instrument Specifications

16.5 cm (w) x 20 cm (d) x 8 cm (h)

1.02 kg

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https://www.gia.edu/id100
giastore@gia.edu
+1 760 603 4200

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