GEM-3000

Overview

GEM-3000 is a desktop diamond verification instrument for loose and mounted diamonds, designed to separate natural diamonds from synthetic diamonds. GEM-3000 is manually operated and requires the user to interpret the test results.

The following results can be concluded by the operator based on the data generated by the GEM-3000:

i) Natural type Ia diamond
ii) Natural type IIa diamond
iii) CVD synthetic diamond
iv) HPHT synthetic diamond
v) Irradiated treated diamond
vi) Moissanite
vii) Cubic Zirconia

Stone Testing Capabilities

Weight range:	**All**
Size of Stones:	**All**
Colour range:	**D-J**
Stone shape:	**All**
Diamond simulants:	**Yes**
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):	**Detect**
Multiple stones at once:	**No**
Training required:	**Yes**

Instrument Performance
The results demonstrate the performance of the GEM-3000 tested by a novice operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate *Optimal rate 0%*	0.3%	0.0%
Diamond Referral Rate *Optimal rate 0%*	4.1%	7.6%
Diamond Accuracy Rate *Optimal rate 100%*	94.8%	90.1%
Speed *Stones tested per hour*	440	440

Instrument Specifications

43 cm (W) x 28 cm (D) x 29 cm (H)

12 kg

Price: **23,000 USD** December 2020

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