



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 an expert operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate <i>Optimal rate 0%</i>	3.3%	0.5%
Diamond Referral Rate <i>Optimal rate 0%</i>	2.4%	0.0%
Diamond Accuracy Rate <i>Optimal rate 100%</i>	96.8%	91.5%
Speed <i>Stones tested per hour</i>	565	565

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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ASSURE Tested November 2019

ASSURE ID 58230