

GEM-3000



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:

- ♦ Natural type Ia diamond
- ♦ Natural type IIa diamond
- ♦ CVD synthetic diamond
- ♦ HPHT synthetic diamond
- ♦ Irradiated treated diamond
- ♦ Moissanite
- ♦ Cubic Zirconia

Stone Testing Capabilities

Weight of stones:

Size of stones:

Colour of stones:

Shape of stones:

D-J

Diamond simulants:

Yes

Mounted stones: Yes not yet ASSURE Tested

Instrument Capabilities

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

Instrument Performance

The below results demonstrate the performance of the GEM-3000 when tested by an Expert Operator:

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

Instrument Specifications

43 cm (w) x 28 cm (h) x 29 cm (h)



12 kg

23,000 USD December 2020

charles@gzbiaoqi.com

+86 13310897669

ASSURE Tested November 2019
ASSURE ID 58230