



GLIS-3000



Overview

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

GLIS-3000 captures multiple images and based on visual analysis of the images, and support from a decision tool, the operator concludes the nature of the stones. The following results can be concluded by the operator based on the data generated by the GLIS-3000:

- i) Natural type Ia diamond
- ii) HPHT synthetic diamond
- iii) Refer

'Refer' could indicate potential synthetic diamonds and diamonds. The referrals should be tested further for full verification.

Stone Testing Capabilities

Weight range: **All**
 Size of Stones: **All**
 Colour range: **D-J**
 Stone shape: **All**
 Diamond simulants: **No**
 Mounted stones: **Yes** not yet ASSURE tested

Instrument Capabilities


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

Instrument Performance

The results demonstrate the performance of the GLIS-3000 tested by an expert operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate <i>Optimal rate 0%</i>	16.1%	3.7%
Diamond Referral Rate <i>Optimal rate 0%</i>	0.6%	0.0%
Diamond Accuracy Rate <i>Optimal rate 100%</i>	95.3%	93.3%
Speed <i>Stones tested per hour</i>	1,183	1,183

Instrument Specifications

 37 cm (W) x 25 cm (D) x 40 cm (H)

 19 kg

Price: 12,000 USD December 2020

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