GLIS-Mini

Overview

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

GLIS-Mini 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-Mini:

i) Pass - natural diamond
ii) Refer

'Refer' could indicate potential synthetic diamonds, diamond simulants 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:	**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):	**Refer**
Multiple stones at once:	**Yes**
Training required:	**Yes**

Instrument Performance

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

	Core Sample	Smalls Sample
Diamond False Positive Rate *Optimal rate 0%*	11.1%	7.3%
Diamond Referral Rate *Optimal rate 0%*	0.8%	16.4%
Diamond Accuracy Rate *Optimal rate 100%*	93.2%	80.1%
Speed *Stones tested per hour*	951	951

Instrument Specifications

25 cm (W) x 15 cm (D) x 13 cm (H)

3 kg

Price: **5,500 USD** November 2019

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