



# GLIS-3000



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:

- ◇ Natural type Ia diamond
- ◇ HPHT synthetic diamond
- ◇ Refer

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

## Stone Testing Capabilities

Weight of stones:	<b>All</b>
Size of stones:	<b>All</b>
Colour of stones:	<b>D-J</b>
Shape of stones:	<b>All</b>
Diamond simulants:	<b>No</b>
Mounted stones:	<b>Yes</b> not yet ASSURE Tested

## Instrument Capabilities

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

## Instrument Performance

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

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

## Instrument Specifications

**37 cm (w) x 25 cm (h) x 40 cm (h)**

**19 kg**

**12,000 USD** December 2020

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