



Gemlogis BELIZE



Overview

Gemlogis BELIZE is a portable diamond verification instrument for loose and mounted stones designed to separate natural diamonds from synthetic diamonds and diamond simulants with its double probe tip testing method.

The user depresses the probe tip 90 degrees perpendicular to the table of the gemstone to start the testing. The instrument indicates Simulant if the test specimen is not moissanite, diamond or synthetic diamond. Alternatively, it will prompt the user to 'perform test II' when the specimen is a moissanite, diamond or synthetic diamond.

The instrument makes a measurement and displays one of the following results:

- i) Simulant
- ii) Moissanite
- iii) Diamond
- iv) Type IIa / HPHT / CVD
- v) Metal

Stone Testing Capabilities

Weight range: **>= 0.005 ct**
 Colour range: **D to K**
 Stone shape: **All**
 Diamond simulants: **Yes**
 Mounted stones: **Yes**

Instrument Capabilities

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

* except Type Iia

ASSURE 2.0 Performance


Key ASSURE 2.0 test results for BELIZE:

	Primary Loose	Smalls	Primary Mounted
Diamond False Positive Rate <i>(Optimal rate 0%)</i>	0.0% +/- 0%	N/A	0.0%
Diamond Referral Rate <i>(Optimal rate 0%)</i>	7.2% +/- 0.6%	N/A	14.4%
Diamond Accuracy Rate <i>(Optimal rate 100%)</i>	92.8% +/- 0.6%	N/A	85.6%
Test Speed <i>Stones per hour</i>	256 +/- 12		

Notes:

Uncertainty ranges (+/-) are based on repeatability testing (three trials) and represent spread of results in absolute terms.
 Test Speed based on time to screen the full Primary Loose sample set, and includes time taken to retest Referrals.
 See Laboratory Report for full set of performance results.

Instrument Specifications

 4.8 cm (W) x 18.1 cm (D) x 2.4 cm (H)

 0.12 kg

Price: 999 USD July 2024

Contact

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ASSURE Tested July 2024