

**PROJECT ASSURE
DIAMOND VERIFICATION INSTRUMENT STANDARD
TEST RESULTS**

Assessment Report for: Gemlogis Belize Pro



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Hoveniersstraat 22
2018 Antwerpen

Testing ID Number:
Report Date: 20/01/2026
Approved by:

Didier Backaert
Lab Manager

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 Bonas Group DIAMONDS & GEMSTONES	Gemlogis Belize Pro		
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DIAMOND VERIFICATION INSTRUMENT

Manufacturer's Name: Gemlogis
Instrument Model: Belize Pro (GEM-0032-01)
Serial Number: n/a
Software Version: n/a

Lab Manager: Didier Backaert
Analyst/Operator : Nathan De Decker

Manufacturer-stated diamond verification instrument description and features:

The Gemlogis Belize Pro is a handheld near colorless Lab-Grown and Simulant diamond tester that features an enhanced method for identifying natural diamond that is especially effective for natural diamond that is less responsive to UV light. Belize Pro combines a Thermal Probe and Optical Probe in a single device to determine if the tested gemstone is a diamond, synthetic diamond or diamond simulant. Key features include:

- Capable of testing mounted and loose, near-colorless (D-J) gemstones with a minimum size of 0.02ct with clarity VVS1 – SI2.
- Readout displays following test result categories:
 - Natural Diamond
 - Lab-Grown CVD/HPHT Type IIa
 - Simulant
 - Moissanite
 - Metal (indicates probe needs to be repositioned onto facet of stone)
- Designed for both left and right-handed users.
- Capable to test all types of mounted jewelry, such as rings, pendants or earings. Settings can be open back or closed back.
- UV light only turns on when probe tip touches the stone. This safety feature reduces UV hazard.
- Large OLED screen and music tone make identification quick and easy.
- Powered by either 3 x AAA batteries or through USB port using power bank or power supply.
- Metal stone rest for testing loose stones is included.

Manufacturer-stated diamond verification instrument limitations:

- Belize Pro does not distinguish between Type IIa natural diamonds and synthetic diamonds.
- Belize Pro is not suitable for diamonds with colors of M or darker.
- Belize Pro does not indicate if a natural diamond has been enhanced by HPHT treatment.

INSTRUMENT PERFORMANCE ASSESSMENT

ASSESSMENT CRITERIA

The ASSURE testing methodology and performance metrics are dependent on the operational capabilities of the diamond verification instrument being tested. These are defined by the following three categories:

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Category 1- Screen diamonds from synthetic diamonds. This category of device is intended for discrimination of diamonds from synthetic diamonds. It cannot distinguish diamonds from diamond simulants and therefore requires stones to be pre-screened to ensure no simulants are introduced into the device.

Category 2 – Screen diamonds from synthetic diamonds and diamond simulants. This category of device is intended for discrimination of diamonds from synthetic diamonds and diamond simulants. This device cannot distinguish synthetic diamonds from diamond simulants.

Category 3 – Screen diamond from synthetic diamonds from diamond simulants. This category of device is intended for discrimination of diamonds, synthetic diamonds and diamond simulants from each other. This device can distinguish synthetic diamonds from diamond simulants.

Instrument performance for classifying the different kinds of stones was assessed against:

- Diamond Verification Instrument Standard Part 1 – Diamond Verification Instrument for Screening Diamonds from Synthetic Diamonds (18 03 2024)
- Diamond Verification Instrument Standard Part 2 – Diamond Verification Instrument for Screening Diamonds from Synthetic Diamonds and Diamond Simulants (18 03 2024)
- Diamond Verification Instrument Standard Part 3 – Diamond Verification Instrument for Screening Diamonds, Synthetic Diamonds, and Diamond Simulants (18 03 2024)

as referenced in sections 7.3 and 7.4 of the Diamond Verification Instrument Standard – General Requirements for Evaluation Diamond Verification Instruments (18 03 2024). Any deviations from the Standard are noted below:

Notes:

DEFINITIONS:

Diamond Accuracy	<i>Diamond</i> test stones correctly classified as <i>Diamond</i> .
Synthetic Diamond Accuracy	<i>Synthetic Diamond</i> test stones correctly classified as <i>Synthetic Diamond</i> .
Diamond Simulant Accuracy	<i>Diamond Simulant</i> test stones correctly classified as <i>Diamond Simulant</i> .
Diamond Referral Rate	<i>Diamond</i> test stones classified as <i>Referral</i> .
Synthetic Diamond Referral Rate	<i>Synthetic diamond</i> test stones classified as <i>Referral</i>
Simulant Referral Rate	<i>Diamond simulant</i> test stones classified as <i>Referral</i>
Diamond False Positive Rate	Synthetic Diamond / <i>Diamond Simulant</i> test stones incorrectly classified as <i>Diamond</i> .
Synthetic Diamond False Positive Rate	<i>Diamond</i> / <i>Diamond Simulant</i> test stones incorrectly classified as <i>Synthetic Diamond</i> .
Diamond Simulant False Positive Rate	<i>Diamond</i> / <i>Synthetic Diamond</i> test stones incorrectly classified as <i>Diamond Simulants</i> .
Diamond False Negative Rate	<i>Diamond</i> test stones incorrectly classified as <i>Synthetic Diamonds</i> or <i>Diamond simulants</i> .

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Synthetic Diamond False Negative Rate	Synthetic Diamond test stones incorrectly classified as Diamonds or Diamond simulants
Diamond Simulant False Negative Rate	Diamond Simulant test stones incorrectly classified as Diamonds or Synthetic Diamonds
Testing Speed	The average speed at which the diamond verification instrument evaluates the stones in the PRIMARY loose sample set, including set-up time (if any)
Operating Speed	For auto-loading diamond verification instruments only, the average speed at which stones are evaluated once the instrument achieves a steady-state. does not include set-up time.

TEST STONE SETS USED FOR EVALUATION

Loose, Polished Stone Test Sets	Diamond	Synthetic Diamond	Diamond Simulant
Primary Sample Set (>2.0 mm, D-J color)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Supplementary Smalls Sample Set (1.0-2.0 mm, D-J color)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Supplementary Ultra Smalls Sample Set (0.5mm > , < 1.0mm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mounted, Polished Stone Test Sets	Diamond	Synthetic Diamond	Diamond Simulant
Primary Sample Set (>2.0 mm, D-J color)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Supplementary Smalls Sample Set (1.0-2.0 mm, D-J color)	<input type="checkbox"/>	<input type="checkbox"/>	

Notes: Smalls Sample set was not tested since the Belize Pro has a lower stone size limit of 0.02ct (~1.7mm)

CLEANING PROCEDURE OF STONES PRIOR TO TESTING

Test stones sets are cleaned in an ultrasonic bath of isopropanol for 2 minutes and dried prior to testing to reduce grease and electrostatic charge, as per Section 8 of ASSURE Standard.

LABORATORY CONDITIONS AT TIME OF ASSESSMENT

Condition	Requirement	Actual
Temperature (°C)	18 to 25°C	23 °C
Humidity (%)	50 to 65%	56 %

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RESULTS OF INSTRUMENT PERFORMANCE ASSESSMENT – LOOSE STONES

Performance Metric	Primary ^[1]	Uncertainty ^[2]	Smalls ^[3]	Uncertainty ^[2]	Ultra-Smalls ^[5]
Diamond accuracy (%)	93.8	1.5			
Synthetic diamond accuracy (%) ^[4]	n/a	n/a			
Diamond simulant accuracy (%)	100.0	0.0			
Diamond referral rate (%) ^[4]	6.2	1.5			
Synthetic diamond referral rate (%) ^[4]	100.0	0.0			
Diamond simulant referral rate (%)	0.0	0.0			
Diamond false positive rate (%)	0.0	0.0			
Synthetic diamond false positive rate (%) ^[4]	n/a	n/a			
Diamond simulant false positive rate (%)	0.0	0.0			
Diamond false negative rate (%)	6.2	1.5			
Synthetic diamond false negative rate (%)	n/a	n/a			
Diamond simulant false negative rate (%)	n/a	n/a			

Notes: ^[1] Primary set comprised of round brilliant loose stones with diameters of >2.0 mm D-J color.

^[2] Uncertainty is expressed as absolute +/- range and reflects the consistency of the instrument's classification of stones for each of the three trials performed with the ASSURE sample.

^[3] Smalls set comprised of round brilliant loose stones with diameters of 1.0–2.0 mm D-J color.

^[4] Stones categorized as Type IIa / CVD / HPHT are considered referrals and should be further tested.

^[5] Ultra-Smalls (<1.0mm diameter) is only included for devices with fully automated feed.

RESULTS OF INSTRUMENT PERFORMANCE ASSESSMENT – MOUNTED STONES

Performance metric	Primary ^[1]	Smalls ^[2]
Diamond accuracy (%)	92.9	
Synthetic diamond accuracy (%) ^[3]	n/a	
Diamond simulant accuracy (%)	100.0	
Diamond referral rate (%) ^[3]	3.9	
Synthetic diamond referral rate (%) ^[3]	95.5	
Diamond simulant referral rate (%) ^[3]	0.0	
Diamond false positive rate (%)	0.0	
Synthetic diamond false positive rate (%) ^[3]	n/a	
Diamond simulant false positive rate (%)	7.7	
Diamond false negative rate (%)	3.2	
Synthetic diamond false negative rate (%)	n/a	
Diamond simulant false negative rate (%)	n/a	

Notes:

^[1] Primary sample set has stones with diameters of >2. mm D-J color.

^[2] Smalls sample set has stones from 1.0 – 2.0 mm in diameter D-J color.

^[3] Stones categorized as Type IIa / CVD / HPHT are considered referrals and should be further tested.

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INSTRUMENT TESTING SPEED ASSESSMENT

Testing Speed approximates the usage turnaround time that could be expected by a novice user of the diamond verification instrument and is determined by the time required to evaluate the performance of the diamond verification instrument on the Primary Loose stone test set:

- Testing Speed accounts for the time directly associated with stone assessment including loading stones, programming any applicable instrument measurement parameters, analyzing the stones, and segregating the analyzed stones into respective instrument classified groups.
- Testing Speed does not include the time to initially warm-up the diamond verification instrument (if applicable) nor the time to separate diamonds from synthetic diamonds for each of the instrument classified groups of analyzed stones.
- Testing Speed does not include time associated with interruptions to the testing process.

Diamond verification instruments that continuously load and analyze stones (i.e., autoloading diamond verification instruments) shall also be assessed for a steady-state Instrument Operating Speed.

Testing speed, and instrument operating speed if applicable, are measured in triplicate. The mean value is reported in the Speed Test Results table below. The uncertainty reflects the absolute +/- range of the results measured over the three trials.

SPEED TEST RESULTS (PRIMARY LOOSE SAMPLE)

Category	Stones per hour	Uncertainty
Testing Speed (all devices)	175	15
Operating Speed (auto-loading devices)	N/A	N/A

Notes: While using the Belize Pro it is important to wait until the temperature of the thermal probe has returned to the normal range by waiting until the previous result has cleared from the screen before proceeding with the next test. The speed test results reflect the time required between tests.

ADDITIONAL FINDINGS

- Initial warm up period is about 20 seconds and is indicated by running dots on the screen. The screen will show 'Step 1 (Thermal Test 1) once the probe has stabilized at the correct temperature.
- Probe tip must be placed perpendicular to the center of the facet of the stone.
- If the stone is Moissanite or Diamond, the display will show "Step 2 (Optical Test)", prompting user to repeat test using optical probe.
- User should wear UV protective gloves and glasses while using device to safeguard skin and eyes from UV radiation.

***** End of Report *****

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