



SCREEN-I SMARTPRO

ASSURE ID: 55303

Screen-I is a portable diamond verification instrument for loose and mounted diamonds. Screen-I is designed to separate natural diamonds from synthetic diamonds. Screen-I is manually operated but gives an automatic test result. Screen-I is suitable for an environment where you need to test both loose and mounted diamonds e.g. retailers, manufacturers, pawnbrokers, appraisers, gemmologist and hobbyists

549 USD (September 2019)

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How does the instrument operate?

The instrument tests individual stones and automatically displays a test result. The user manually places a loose or mounted polished stone into the Screen-I. To start the testing, the user closes the lid and press the start button. Screen-I automatically presents the test result.

Screen-I displays one of the following results:

- ◇ Diamond
- ◇ CVD/HPHT

'CVD/HPHT' result could contain synthetic diamonds and natural diamonds, and these have been classified as 'referrals'. These referrals shall be tested by a gemmological laboratory for full verification.



12.6cm (w) x 7.6cm (d) x 6.5cm (h)

0.174kg

Stone Capabilities

Weight of stones: **0.01 ct - 12 ct**

Colour of stones: **D-J**

Shape of stones: **ALL**

Diamond simulants: **NO**

Jewellery: **YES** open back designs

Instrument Capabilities

Automatically feed the stones?	NO
Automatically interpret the results?	YES
Automatically dispense the stones?	NO
Detect or refer synthetic diamonds?	REFER
Multiple stones at one time?	NO
Training?	NO

ACCORDING TO SMARTPRO

Test Procedure

Screen-I was tested in accordance with the Diamond Verification Instrument Standard with the test protocol for instruments that separate diamonds from synthetic diamonds (Operation Category 1).

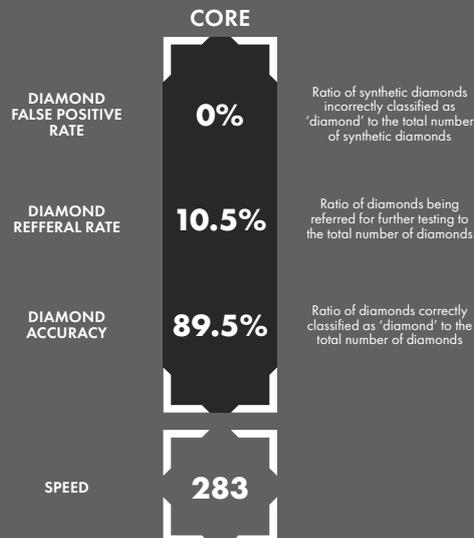
The tests took place at the independent laboratory UL in Canton, Massachusetts, United States. The tests were performed by a novice operator.

Screen-I was tested with the ASSURE Core Sample that consists of 1,000 diamonds and 200 synthetic diamonds. The stones are 0.02 ct to 0.20 ct in D-J colour. The below results are from the test with the ASSURE Core Sample.

ASSURE Core Sample

The ASSURE Core Sample consists of 1,000 loose diamonds and 200 loose synthetic diamonds. The stones are 0.02 ct to 0.20 ct in D-J colour. The results are from the test with the ASSURE Core Sample.

Test Results



The summary test report issued by UL can be found here.
The report was issued 09/2019.

Safety Credentials

The most important requirement when selecting a Diamond Verification Instrument is that the instrument meets the safety regulations of your local jurisdiction. Before purchasing an instrument, request that the manufacturer verifies that their instrument complies with all regulatory requirements.

Click here to download the safety testing credential for Screen-I submitted by SmartPro. Please note that the safety testing credentials have not been validated through the ASSURE Program.