



## GEMPEN® GEMOMETRICS AB

ASSURE PARTNER | ASSURE TEST NUMBER: 14933

GemPen® is a handheld diamond verification instrument for loose and mounted stones. GemPen® is designed to separate diamonds from synthetic diamonds by providing professional users with the information required to manually screen diamonds from synthetic diamonds. GemPen® is suitable for field gemmologists, diamond buyers, wholesalers and retailers.

2,300 USD (April 2019)

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### How does the instrument operate?

The user manually places the stones in a case that function as a darkroom. After GemPen® is turned on and directed towards a gemstone, a fluorescing effect will occur. By manually analysing this effect, certain conclusions can be deducted. The user interprets the fluorescing effect and determine, with guidance from the GemPen® Diamond Map and online GemPen®, if the stone is a natural diamond or a synthetic diamond.

To increase the rate of correct interpretation from the results, Gemometrics always recommend the users to use other gemmological instruments, in addition to the GemPen®.



 24cm (w) x 3.6cm (d) x 3.2cm (h)

 0.4kg

### Stone Capabilities

Weight of stones: **ALL**  
Size of stones: **ALL**  
Colour of stones: **ALL** except yellow  
Shape of stones: **ALL**  
Diamond simulants: **NO**  
Jewellery: **YES**

### Instrument Capabilities

Automatically feed the stones? **NO**  
Automatically interpret the results? **NO**  
Automatically dispense the stones? **NO**  
Detect or refer synthetic diamonds? **DETECT**  
Multiple stones at one time? **YES**  
Training? **YES** through an online education platform

ACCORDING TO GEMOMETRICS AB

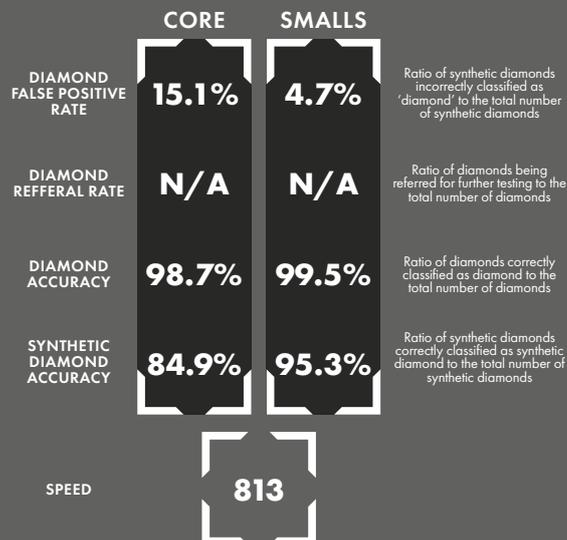
### Test Procedure

GemPen® 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. GemPen® was tested with the ASSURE Core Sample (0.02 ct to 0.20 ct in D-J colour) and ASSURE Smalls Sample (0.005 ct to 0.02 ct in D-J colour). Both sample sets consist of 1,000 diamonds and 200 synthetic diamonds.

GemPen® requires manual interpretation and the instrument was tested both with a novice and a manufacturer appointed expert. The manufacturer appointed an expert from UL's team. These results are from the expert tests. Both the novice and the expert test results can be found in the summary report issued by UL.

### Test Results



The summary test report issued by UL can be [found here](#).

The report was issued 05/2019.

### 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 GemPen® submitted by Gemometrics. Please note that the safety testing credentials have not been validated through the ASSURE Program.