



## DiamondView



### Overview

DiamondView is a desktop diamond verification instrument designed to authenticate diamonds and synthetic diamonds by illuminating with short-wave ultra-violet light. It is typically used as a means of examining diamonds referred from other devices, however DiamondView can be used as a stand-alone instrument as well.

The determination of stone type is made by the operator based on an interpretation of the DiamondView image. The following results can be concluded:

- i) Diamond
- ii) Synthetic diamond

An experienced user can judge whether the stone being tested is natural or synthetic diamond, however in rare instances additional measurements may need to be used for a conclusive determination. DiamondView comes with additional filters to aid with interpretation of blue fluorescing CVD synthetics.

### Stone Testing Capabilities

Weight range: **0.05 ct to 10 ct**  
Colour range: **All**  
Stone shape: **All**  
Diamond simulants: **No**  
Mounted stones: **Some \***

\* some simple rings and stud earrings.

### Instrument Capabilities

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

\* familiarisation with the DiamondView image reference library is required for interpretation of results.

### ASSURE 2.0 Performance

Key ASSURE 2.0 test results for the DiamondView:

	Primary Loose	Smalls Loose	Primary Mounted
<b>Diamond False Positive Rate</b> <i>(Optimal rate 0%)</i>	0.0% +/- 0.0%	N/A	N/A
<b>Diamond Referral Rate</b> <i>(Optimal rate 0%)</i>	0.0% +/- 0.0%	N/A	N/A
<b>Diamond Accuracy Rate</b> <i>(Optimal rate 100%)</i>	99.6% +/- 0.3%	N/A	N/A
<b>Test Speed</b> <i>Stones per hour</i>	94 +/- 11		

#### Notes:

Uncertainty ranges (+/-) are based on repeatability testing (three trials) and represent spread of results in absolute terms.  
Test Speed includes time taken to place the samples on the instrument and to interpret the results.  
See Laboratory Report for full set of performance results.

### Instrument Specifications

20 cm (W) x 40 cm (D) x 25 cm (H)

13 kg

Price: 36,000 USD (Apr 2023)

### Contact

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