DiamondView

DiamondView is a desktop diamond verification instrument for loose and some mounted stones, designed to authenticate diamonds and synthetic diamonds. DiamondView is manually operated and requires an operator to interpret the test results.

It is typically used as a means of examining referral diamonds, but the instrument can be used independently as well.

DiamondView displays images and based on visual analysis the operator concludes the nature of the stones. The following results can be concluded by the operator based on the data generated:

◊ Diamond
◊ Synthetic diamond

An experienced user can judge whether the stone under test is a natural or synthetic diamond. In very few cases additional measurements may need to be carried out.

Stone Testing Capabilities

Weight of stones:	**0.05 ct - 10 ct**
Colour of stones:	**All**
Shape of stones:	**All**
Diamond simulants:	**No**
Mounted stones:	**Yes** not yet ASSURE Tested

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** including familiarisation with a DiamondView image library

Instrument Performance

The results demonstrate the performance of the DiamondView tested by an expert operator:

	Core Sample
Diamond False Positive Rate *Optimal rate 0%*	**0%**
Diamond Referral Rate *Optimal rate 0%*	**N/A**
Diamond Accuracy Rate *Optimal rate 100%*	**100%**
Speed *Stones tested per hour*	**112**

Instrument Specifications

20 cm (w) x 40 cm (d) x 25 cm (h)

13 kg

35,000 USD February 2019

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