J-Detect Pro

Overview

The DRC J-Detect Pro is a desktop diamond verification instrument for loose and mounted stones, designed to separate diamonds from synthetic diamonds. J-Detect Pro is manually operated but gives and provides a semi-automatic test interpretation.

The instrument can analyze multiple stones at once using the provided trays for loose and mounted jewelry. The interpretation categores for the J-Detect Pro are:
1) Diamond
2) Refer

The 'Refer' category may contain diamonds or synthetic diamonds. These referrals should be tested further for full verification.

Stone Testing Capabilities

Weight range:	**>= 0.003 ct**
Colour range:	**D to K**
Stone shape:	**All**
Diamond simulants:	**No**
Mounted stones:	**Yes**

Instrument Capabilities

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

ASSURE 2.0 Performance

Key ASSURE 2.0 test results for the J-Detect Pro:

	Primary Loose	Smalls Loose	Primary Mounted
Diamond False Positive Rate (Optimal rate 0%)	**2.3%** +/- 1.2%	**2.3%** +/- 0.5%	**6.5%**
Diamond Referral Rate (Optimal rate 0%)	**21.6%** +/- 5.1%	**19.5%** +/- 2.4%	**23.3%**
Diamond Accuracy Rate (Optimal rate 100%)	**78.4%** +/- 5.1%	**80.5%** +/- 2.4%	**76.6%**
Test Speed Stones per hour	**238** +/- 30		

Notes:
Uncertainty ranges (+/-) are based on repeatability testing (three trials) and represent spread of results in absolute terms.
Test Speed based on time to screen the full Primary Loose sample set, and to interpret the results.
See Laboratory Report for full set of performance results.

Instrument Specifications

📏 **31.5 cm (W) x 27.5 cm (D) x 38 cm (H)**

🛍 **18 kg**

Price: 11,999 USD (Sept 2023)

Contact

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