



D-Secure +



Overview

D-Secure+ is a desktop diamond verification instrument for mounted and loose stones, designed to separate synthetic diamonds from diamonds. D-Secure+ is manually operated but gives an automatic test result.

D-Secure+ makes a measurement and displays one of the following results:

- i) Diamond
- ii) Synthetic diamond
- iii) Check with fluorescent light
- iv) Clean and recheck

In case of query, D-Secure+ software has a troubleshoot option that connects the user with the DRC Techno Support team.

Stone Testing Capabilities

Weight range: **0.003 ct+**
 Size of Stones: **0.7 mm+**
 Colour range: **D-K**
 Stone shape: **All**
 Diamond simulants: **No**
 Mounted stones: **Yes** flat jewellery, not yet ASSURE tested

Instrument Capabilities


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

Instrument Performance

The results demonstrate the performance of the D-Secure+ tested by an expert operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate <i>Optimal rate 0%</i>	14.1%	3.1%
Diamond Referral Rate <i>Optimal rate 0%</i>	N/A	N/A
Diamond Accuracy Rate <i>Optimal rate 100%</i>	94.7%	96.4%
Speed <i>Stones tested per hour</i>	948	948

Instrument Specifications

 33.5 cm (W) x 30.5 cm (D) x 40.5 cm (H)

 22.5 kg

Price: 11,999 USD August 2019

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