



ALROSA Diamond Inspector



The ALROSA Diamond Inspector is a portable instrument designed to separate diamonds from synthetic diamonds and diamond simulants. It is manually operated but gives an automatic test result and is suitable for both loose and mounted diamonds.

The ALROSA Diamond Inspector automatically takes a measurement and displays one of the following results:

- ◇ Natural
- ◇ Type IIa (IaB) Refer to Lab.
- ◇ Treated
- ◇ Need investigation
- ◇ Simulant
- ◇ Check stone

The 'Type IIa (IaB) refer to lab' and 'Need investigation' results could contain potential synthetic diamonds and diamonds. These referrals should be tested further for full verification.

Stone Testing Capabilities

Weight of stones:	0.03 ct - 10 ct
Size of stones:	2 mm - 14.4 mm
Colour of stones:	D-J
Shape of stones:	All
Diamond simulants:	Yes
Mounted stones:	Yes not yet ASSURE Tested

Instrument Capabilities

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

Instrument Performance

The results demonstrate the performance of the ALROSA Diamond Inspector tested by a novice operator:

	Core Sample
Diamond False Positive Rate <i>Optimal rate 0%</i>	0%
Diamond Referral Rate <i>Optimal rate 0%</i>	3.6%
Diamond Accuracy Rate <i>Optimal rate 100%</i>	96.4%
Speed <i>Stones tested per hour</i>	24

Instrument Specifications

 **15 cm (w) x 25 cm (h) x 10 cm (h)**

 **1.8/3.1 kg**

5,799 USD August 2019

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