



DiamondProof



Overview

DiamondProof is a user-friendly desktop diamond verification instrument designed to screen mounted and loose diamonds, synthetic diamonds and diamond simulants. DiamondProof has a high-resolution touchscreen and automated results.

The determination of stone type is illustrated on the screen using color coding to indicate the category of stone. The following results displayed:

- i) Blue coloring: Diamond
- ii) Yellow coloring: Refer
- iii) Clear coloring: Out of range

Loose stones with Yellow or Clear coloring can be repositioned on the cradle and retested to verify the result. If they remain Yellow or Clear, they are considered Referrals and should be identified by tests typically carried out in a gemmological laboratory.

Stone Testing Capabilities

Weight range: **0.01 ct to 10 ct**
 Colour range: **D-J**
 Stone shape: **All**
 Diamond simulants: **Yes**
 Mounted stones: **Yes**

Instrument Capabilities

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

* Refer to Operating Manual for installation and operation of DiamondProof.

ASSURE 2.0 Performance

Key ASSURE 2.0 test results for the DiamondProof:

	Primary Loose	Smalls Loose	Primary Mounted
Diamond False Positive Rate <i>(Optimal rate 0%)</i>	0.0% +/- 0.0%	0.0% +/- 0.0%	0.0%
Diamond Referral Rate <i>(Optimal rate 0%)</i>	5.1% +/- 1.7%	3.9% +/- 1.2%	4.9%
Diamond Accuracy Rate <i>(Optimal rate 100%)</i>	94.9% +/- 1.7%	96.2% +/- 1.2%	95.1%
Test Speed <i>Stones per hour</i>	281 +/- 35		

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

40 cm (W) x 27 cm (D) x 41.5 cm (H)

10.5 kg

Price: 5,500 USD (Dec 2025)

Contact

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