



TruSure Median by MindronTech



Overview

The TruSure Median by MindronTech is a portable desktop diamond verification instrument for loose and mounted stones designed to detect natural diamonds, synthetic diamonds and diamond simulants. The Median is manually operated and requires the user to interpret color images of the stones under fluorescence and phosphorescence. Images are displayed on the integrated touchscreen display. The Median features a large scanning area of 225mm x 125mm to accommodate testing of many loose stones at a time, as well as large jewelry pieces. It comes with trays for both loose and mounted stones.

The TruSure Median analyzes diamonds using three key fluorescence and phosphorescence properties: i) Fluorescence; measures how diamonds glow under light, ii) Short Phosphorescence; measures how diamonds briefly glow after the light is turned off, and iii) Long Phosphorescence; measures how diamonds glow for a longer time after the light is turned off. By analyzing these properties, a determination can be made whether stone is natural, synthetic diamond, or diamond simulant. An interpretation key with reference colors is shown on the display to assist with categorization of stones in one of the following categories:

- i) Diamond
- ii) Synthetic Diamond
- iii) Diamond Simulant
- iv) Refer

Stone Testing Capabilities

Weight range: **All**
 Size of stones: **All**
 Colour range: **D-J**
 Stone shape: **All**
 Diamond simulants: **Yes**
 Mounted stones: **Yes**

Instrument Capabilities

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

ASSURE 2.0 Performance


Key ASSURE 2.0 test results for TruSure Median:

	Primary Loose	Smalls Loose	Primary Mounted
Diamond False Positive Rate <i>(Optimal rate 0%)</i>	0.0% +/- 0%	0.0% +/- 0%	1.9%
Diamond Referral Rate <i>(Optimal rate 0%)</i>	4.3% +/- 1.1%	5.1% +/- 1.4%	11.8%
Diamond Accuracy Rate <i>(Optimal rate 100%)</i>	95.7% +/- 1.1%	94.9% +/- 1.4%	86.4%
Test Speed <i>Stones per hour</i>	451 +/- 10		

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 includes time taken to retest challenging stones at different angles.
 See Laboratory Report for full set of performance results.

Instrument Specifications

 30.0 cm (W) x 25.0 cm (D) x 22.5 cm (H)

 6 kg

Price: 5,999 USD (June 2026)

Contact

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