



SmartPro MAX



Overview

SmartPro MAX is a portable diamond verification instrument for loose and mounted stones designed to separate natural diamonds from synthetic diamonds and diamond simulants. MAX has a dual-probe tip that measures thermal conductivity and UV light absorption to determine stone type. MAX is manually operated but gives an automated result on its built-in display.

When using the device, the probe tip should be held at an upright position 90 degrees perpendicular to the table of the gemstone. The user then fully depresses the tip applying constant pressure for the duration of the testing bar shown on the display. User must always ensure the probe tip is kept clean; when necessary it should be cleaned with a microfiber cloth as per the procedure in the supplied User Manual.

The instrument makes a measurement and displays one of the following results:

- i) Diamond
- ii) Type Ila/CVD/HPHT
- iii) Moissanite
- iv) Simulant
- v) CZ

Stone Testing Capabilities

Weight range:	≥ 0.02 ct (minimum diameter of 2.0mm)
Colour range:	D to 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):	Detect
Multiple stones at once:	No
Training required:	No

* stones classified as Type Ila/CVD/HPHT/ are considered referrals and should be submitted for further testing.

ASSURE 2.0 Performance


Key ASSURE 2.0 test results for MAX:

	Primary Loose	Smalls	Primary Mounted
Diamond False Positive Rate (Optimal rate 0%)	0.0% +/- 0%	N/A	0.0%
Diamond Referral Rate (Optimal rate 0%)	6.7% +/- 1.2%	N/A	4.3%
Diamond Accuracy Rate (Optimal rate 100%)	93.3% +/- 1.2%	N/A	90.9%
Test Speed Stones per hour	177 +/- 23		

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 Primary Loose sample set. Measurement includes time taken to retest referrals.
See Laboratory Report for full set of performance results.

Instrument Specifications

 5.5 cm (W) x 16.0 cm (L) x 2.8 cm (H)

 0.145 kg

Price: 1,345 USD (Dec 2025)

Contact

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