ASSURE TESTED

DIATRUE CS

DIATRUE CS is a desktop diamond verification instrument for loose and mounted diamonds.

DIATRUE CS is designed to separate natural diamonds from synthetic diamonds. DIATRUE CS is manually operated and gives a semi-automatic test results.

DIATRUE CS measures multiple stones and semi-automatically displays one of the following results:

◇ Diamond
◇ Synthetic diamond (separate HPHT and CVD)
◇ Refer

The 'Refer' result could indicate a potential synthetic diamond or natural diamond. DIATRUE CS has a special 'refer function'. If operator still has a doubt after utilizing the 'refer function' OGI recommends further testing by a gemmological laboratory.

Stone Testing Capabilities

Weight of stones:	**0.005 ct**
Size of stones:	**0.5 mm+**
Colour of stones:	**D-J**
Shape of stones:	**All**
Diamond simulants:	**Yes** not yet ASSURE Tested
Mounted stones:	**Yes** 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)	**Detect**
Multiple stones at once:	**Yes**
Training required:	**No** review user manual

Instrument Performance

The below results demonstrate the performance of the DIATRUE CS with the ASSURE Core Sample when tested by a Novice Operator:

	Core Sample	Smalls Sample
Diamond False Positive Rate Optimal rate 0%	4%	
Diamond Referral Rate Optimal rate 0%	N/A	
Diamond Accuracy Rate Optimal rate 100%	93.7%	
Speed Stones tested per hour	201	

Instrument Specifications

26 cm (w) x 21 cm (d) x 25 cm (h)

6 kg

5,958 USD December 2020

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ASSURE Tested November 2020
ASSURE ID 39784