



# 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:	<b>0.005 ct+</b>
Size of stones:	<b>0.5 mm+</b>
Colour of stones:	<b>D-J</b>
Shape of stones:	<b>All</b>
Diamond simulants:	<b>Yes</b> not yet ASSURE Tested
Mounted stones:	<b>Yes</b> not yet ASSURE Tested

## Instrument Capabilities

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

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

\*Since September 2020, all tests are performed by a novice tester.

## Instrument Specifications

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

 **6 kg**

**5,958 USD** December 2020

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