



# GIA DiamondCheck



GIA DiamondCheck is a desktop diamond verification instrument for loose stones, designed to separate diamonds, synthetic diamonds and diamond simulants. GIA DiamondCheck is manually operated and gives an automatic test result.

The instrument tests individual stones and automatically displays one of the following results:

- ◇ Natural diamond
- ◇ Diamond; refer for further testing
- ◇ Non-diamond

The 'Diamond; refer for further testing' result could contain potential synthetic diamonds or diamonds. These referrals should be tested further for full verification.

A quick background spectrum must be collected once per day or any time the software is closed and reopened.

## Stone Testing Capabilities

- Weight of stones: **0.01 ct - 10 ct** maximum total depth of stone is 15mm
- Size of stones: **1.25mm+**
- Colour of stones: **D-N**
- Shape of stones: **All**
- Diamond simulants: **Yes**
- Mounted stones: **No**

## 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: **Recommended**

## Instrument Performance

The results demonstrate the performance of the GIA DiamondCheck tested by a novice operator:

	Core Sample
<b>Diamond False Positive Rate</b> <i>Optimal rate 0%</i>	<b>0%</b>
<b>Diamond Referral Rate</b> <i>Optimal rate 0%</i>	<b>4.1%</b>
<b>Diamond Accuracy Rate</b> <i>Optimal rate 100%</i>	<b>95.6%</b>
<b>Speed</b> <i>Stones tested per hour</i>	<b>105</b>

## Instrument Specifications

**35cm (w) x 28cm (d) x 27cm (h)**

**10.9 kg**

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