



## ASDI SATTGEMS

ASSURE PARTNER | ASSURE TEST NUMBER: 43461

ASDI is a stationary fully automated diamond verification instrument. ASDI is designed to screen large quantities of colourless and near colourless loose stones at a high speed. ASDI automatically separate diamonds from synthetic diamonds and diamonds simulants. ASDI is suitable for large scale diamond wholesalers, diamond cutting and polishing sites, jewellery manufacturers, and gemmological laboratories.

Price upon request

[www.sattgems.com](http://www.sattgems.com)

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### How does the instrument operate?

The user loads a parcel of loose polished stones into the ASDI. The instrument then automatically processes the stones and dispenses them into respective category.

ASDI dispenses the stones into three categories:

- ◇ Diamond
- ◇ Refer
- ◇ Diamond simulant/refer

The refers could contain potential synthetic diamonds and diamonds. The referrals shall be tested further for full verification. SATTGEMS AG recommends further testing by a gemmological laboratory.

Additionally, ASDI can provide batch reports for up to 15 size measurements plus proportions for each diamond.

ASDI is delivered with a series of master stones which can be tested anytime to ensure the correct calibration of the instrument.



170cm (w) x 90cm (d) x 160cm (h)

350kg

### Stone Capabilities

Weight of stones: **0.002ct - 0.20ct**  
 Size of stones: **0.85mm - 3.80mm**  
 Colour of stones: **D-J**  
 Shape of stones: **ROUND**  
 Diamond simulants: **YES**  
 Jewellery: **NO**

### Instrument Capabilities

Automatically feed the stones? **YES**  
 Automatically interpret the results? **YES**  
 Automatically dispense the stones? **YES**  
 Detect or refer synthetic diamonds? **REFER**  
 Detect or refer diamond simulants? **REFER**  
 Multiple stones at one time? **YES**  
 Training? **YES** three-day course at SSEF

ACCORDING TO SATTGEMS AG

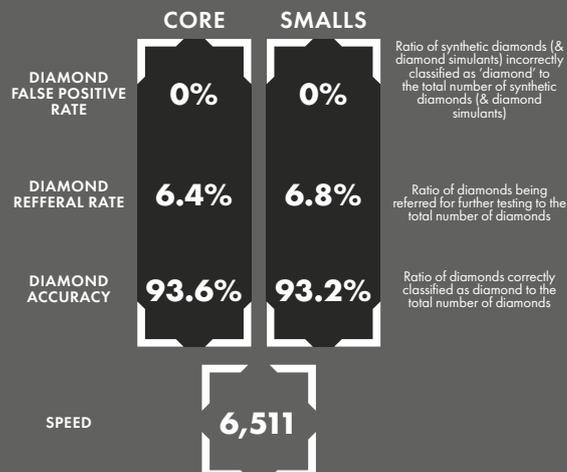
### Test Procedure

ASDI was tested in accordance with the Diamond Verification Instrument Standard with the test protocol for instruments that separate diamonds from synthetic diamonds and diamond simulants (Operation Category 2). The tests took place at SSEF's laboratory by a technician from the independent laboratory UL. ASDI was tested with the ASSURE Core Sample that consists of 1,000 diamonds, 200 synthetic diamonds and 200 diamond simulants. The stones are 0.02 ct to 0.20 ct in D-J colour.

ASDI was tested with the ASSURE Core Sample (0.02 ct to 0.20 ct in D-J colour) and ASSURE Smalls Sample (0.005 ct to 0.02 ct in D-J colour). Both sample sets consist of 1,000 diamonds, 200 synthetic diamonds and 200 diamond simulants.

The tests were performed by a novice operator.

### Test Results



### Safety Credentials

The most important requirement when selecting a Diamond Verification Instrument is that the instrument meets the safety regulations of your local jurisdiction. Before purchasing an instrument, request that the manufacturer verifies that their instrument complies with all regulatory requirements.

[Click here](#) to download the safety testing credential for the ASDI submitted by SATTGEMS. Please note that the safety testing credentials have not been validated through the ASSURE Program.

The summary test report issued by UL can be [found here](#).

The report was issued 05/2019.