

# SynthDetect



**Price:** On request

**Job:** To screen jewellery and loose diamonds

The SynthDetect has been ASSURE TESTED. Results available at: [www.naturaldiamonds.com/council/assure-testing-program](http://www.naturaldiamonds.com/council/assure-testing-program)



SynthDetect is designed for testing stones in mounted jewellery, however, can also be used to test loose stones. It is suitable for testing colourless to near-colourless diamonds to the smallest diamonds.

The various jewellery attachments allow rings, earrings, bracelets, brooches and necklaces etc. to be tested.

Larger jewellery pieces, along with loose diamonds can be viewed in the sampling tray.

Using the principle of time-resolved photo luminescence, an image is viewed on a high-resolution touch screen, where an automated result is displayed indicating the result as either: natural or refer.

## Technical Specifications:

- Colour range: Colorless/near colourless
- Cuts: All cuts can be tested
- Size: No lower size limit
- All synthetic diamonds and a very small number of natural diamonds referred for further testing
- Various viewing modes include: white light illumination, fluorescence, phosphorescence
- Controls to focus and rotate the test piece so all stones are viewed
- Field iris for isolating and viewing single stones in a jewellery piece
- Dimensions: 310mm (w) x 340mm (d) x 458mm (h)
- 1 year parts/service warranty

# SynthDetect XL

**Price:** On request

**Job:** To screen multiple jewellery pieces and loose diamonds



The SynthDetect XL base can replace the standard base and has the advantage of holding larger jewellery items as well as multiple pieces of jewellery. The platform can also hold up to 85 rings on its 3 axes (x,y,z) plate.

The platform is A4 size, measuring 210 x 297mm.

To Note: at present, pieces requiring rotation must still use the standard SynthDetect™ lower module.

#### · Technical Specifications:

- Maximum jewellery piece height (tray to focal point) = 30mm
- Maximum variation in scanning height = 20mm
- Dimensions: 558mm (w) x 685mm (d) x 169mm (h) or 492mm (h)
- Illumination module fitted
- 1 year parts/service warranty

# SynthDetect XL+

**Price:** On request

**Job:** To screen various types of jewellery pieces and loose diamonds at volume



The SynthDetect XL+ is a bundled screening solution which includes the SynthDetect Standard base, XL base, a camera unit that fits onto the base, and a monitor for viewing screening results.

This combination enables clients the flexibility to screen a larger variety of diamond jewellery and loose diamonds using the standard and XL base with SynthDetect accessories accordingly.

Screen earrings, rings and bracelets, a tray of melee, and larger diamond necklaces easily and efficiently while saving time and costs.

Technical Specifications:

- \*Refer to the SynthDetect and SDXL specifications.