

DiamondPlus

Price: \$7,000 USD

Job: To screen type II diamonds for HPHT colour treatment



The DiamondPlus is a compact screening device intended for use in all locations where polished diamonds are handled.

It is primarily designed to screen for Type II high pressure high temperature (HPHT) treated natural diamonds, although it does also have the capability to separate out some synthetic categories and will refer some irradiated diamonds.

The instrument makes a laser-excited photoluminescence measurement and will return an automated pass or refer result. Diamonds referred by the instrument should not be classified as HPHT treated or synthetic without additional testing.

In addition to referring all HPHT treated Type II diamonds, the instrument will also refer a percentage of untreated natural Type II diamonds. Testing on all referred

diamonds should be carried out using more sensitive, laboratory-based, low temperature photoluminescence equipment. From these measurements, a definitive decision can be made on the origin of the colour.

Technical Specifications:

- Colour range: All colours can be tested
- Cuts: All cuts and be tested
- Size: 0.05-10ct size range
- Will pass untreated natural type II diamonds within 20 seconds
- Suitable for a laboratory environment that has access to liquid nitrogen
- Dimensions: 150mm (w) x 260mm (d) x 100mm (h)
- 1 year parts/service warranty