There are no differences to the naked eye, however, the correct tool can reveal a lot beyond the mere appearances.

DIASYNTH YOUR DIAMOND FIREWALL.



DTP S.r.l.
via delle Nazioni, 4
37012 Bussolengo (VP) - Italy

www.diatechpro.com



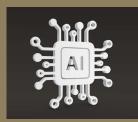
The World's most advanced device for Synthetic Diamonds and Simulants detection











ARTIFICIAL INTELLIGENCE

classify them into Natural Diamonds, CVD. HPHT, and the most common Simulants such as Cubic Zirconia. Moissanite, Sapphire, Topaz and many others



IMMEDIATE DETECTION

and instantaneously detects the presence, the size and the position of each individual gem deployed on the testing platform, or mounted on your Jewellery



PICK THE RIGHT ONE

The results of the classification process are reproduced directly underneath the tested gems, allowing

You may let DIASYNTH do it all by itself, or you can ask an hint to the Al... only when you need it.







computerized digital process.

In relation to the number of stones to be analysed, the analysis time of DIASYNTH is between 15 and 40 seconds. Practical tests have demonstrated a

The reading and the analysis of fluorescence and

phosphorescence are no longer based on the user's expertise. With DIASYNTH, the results are the fruit of an advanced

productivity of 2000 gems/hour (if divided into batches of 80 gems) or 6000 gems/ hour (if divided into batches of 1500 gems)



MULTI-WAVE UV STIMULATION

DIASYNTH is equipped with multiple UV light sources and stimulates gems with Long-Wave UV (close to 365 nm) and Short-Wave UV (close to 200 nm). The analysis of the fluorescence, when induced with multiple UV sources, allows the evaluation even of those gems which, in some cases, show very weak reactions to UV stimulations.



RINGS AND BANGLES

The auxiliary supports, which can be easily plugged in and interchanged, allow DIASYNTH to analyze rings and bracelets studded with gems all around. The rotary motor

does rotate the jewelry 360' under the eye of DIASYNTH, for a quick and safe inspection. In addition to SMART TRAY, DIASYNTH is provided with a second additional tray with a sponge base, a rotating holder for rings, and a rotating holder for bracelets.



MOUNTED STONES DETECTION

DIASYNTH's Artificial Intelligence can recognize gems even when they are mounted on jewels. The special "MOUNTED STONES" function allows DIASYNTH to test iewels such as rings, bangles, earrings. pendants, etc, with the same ease and immediacy with which loose stones are tested. The results are shown in correspondence with the stones. so as to allow rapid identification



