

DIASYNTHLAB

Faster.
Safer.
Smarter.

The instrument
that redefines
gemological testing.



MADE IN ITALY

SKU 8171121

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DIASYNTH LAB is the preferred choice of gemological laboratories around the world, valued for its reliability, precision, and scientific rigor. **Instrumental analysis is a serious matter - there's no room for guesswork.**



INSTANT RESULTS

Less than 10 seconds for a single stone, around 40 seconds for 2000 stones. Exceptional productivity and consistent performance, with no unnecessary wait times-whether you're working with loose stones or mounted jewelry.



VAST WORKING AREA

With a generous 36x32 cm workspace and open access on three sides, DIASYNTH LAB ensures quick and comfortable entry to the testing zone. Its design is carefully crafted to accommodate even large jewelry pieces with ease.



MULTI-LEVEL AI

Driven by high-performance NVIDIA processors, DIASYNTH LAB integrates DTP's proprietary Multi-Level AI to detect, analyze, and classify each stone with outstanding precision.

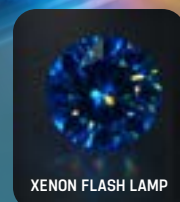


MULTI-SPECTRUM UV

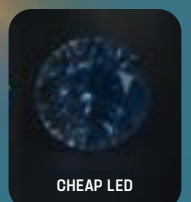
DIASYNTH LAB employs multiple UV sources to stimulate gemstones using Long Waves (approx. 365 nm) and Short Waves (approx. 200 nm). The induced fluorescence and phosphorescence reveal significantly more details than conventional methods, which are often imprecise and unreliable.

XENON LAMP

Unlike conventional UV sources, Xenon lamps deliver a stronger UV output and reach deeper wavelengths, close to X-rays. This enables the extraction of critical information during testing, without producing the typical bluish visible light that could lead to misinterpretation.



XENON FLASH LAMP



CHEAP LED

Developed in collaboration with Italian universities and international gemological laboratories, **DIASYNTH LAB marks a new chapter in advanced technology for gemological analysis.**



CLEAR AND AUTOMATIC RESULTS

No legends to interpret, no uncertain outcomes. Powered by proprietary AI, DIASYNTH LAB displays the **result of each analysis directly on screen**, using intuitive icons placed precisely over each stone. The operator doesn't need to interpret anything—everything is immediate, accurate, and clearly visible.



FAST PICKING

Operators can retrieve stones with pinpoint accuracy thanks to "Fast Picking", a DTP-developed solution that shows tweezers or markers directly through the monitor, making selection fast, precise, and effortless.



MATRIX GRID

The trays included with DIASYNTH LAB are designed to simplify the handling and identification of gemstones and jewelry. **Each independent section ensures a clean and accurate analysis, helping reduce operational time.**

Both large individual pieces and batches of loose stones can be tested with ease. The system also features a rotating support specifically for rings and bracelets.



SECURE AND COST-FREE

We continuously work to improve the user experience of our instruments. **Software updates—including AI enhancements—are always free.**

To ensure full privacy and security, **all data is stored locally in the device's internal memory**, with no cloud sharing. Not even DTP can access it without explicit authorization.



-  NAT
-  CVD
-  HPHT
-  SIM
-  CZ

DIASYNTH LAB'S AI CAN DETECT OVER 130 DISTINCT FEATURES FOR EACH GEM, enabling the identification of **Natural Diamonds, Synthetic Diamonds (CVD and HPHT)** and common simulants such as **CZ, Moissanite, Topaz, Synthetic and Natural Sapphire, Glass, Quartz**, and many others.

Colorless gemstones might look all the same. DIASYNTH's next-generation technology reveals critical differences for precise gemstone identification.

DIASYNTH
YOUR DIAMOND FIREWALL.

Contact Us

We're Here to Help

For any product questions, troubleshooting, or assistance, please reach out to our customer service team. We'll make sure you get the support you need.

Customer Support

Email: info@gesswein.com
Phone: 203.366.5400

Support Hours

Mon - Fri | 8:30AM - 5PM EST

Gesswein

201 Hancock Avenue
Bridgeport, CT 06605
USA