IZAK Scientific

Precision. Inspection. Quantum

# Who We Are

IZAK Scientific specializes in the development of optical test equipment and customized electro-optical systems.

Our expertise combines:

- Optics and opto-mechanics
- Micro-mechanics and electronics
- Software development and image processing
- Automated inspection systems

Our uniqueness lies in delivering fast, reliable, and accurate inspection solutions tailored for customers in industry, research, and development.

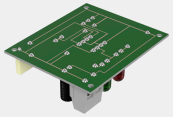
# AREAS OF EXPERTISE



**Optical Design** – from single lens or mirror design to complete optical systems, including simulations and imaging analysis.




**Test System Development** – designing automated inspection systems for reliability, accuracy, and quality control in production lines and laboratories.



**Electronics Design** – development of dedicated circuits, drivers, and control boards tailored to customer requirements.

**Sensors & Light Sources –** precision sensors with high sensitivity, DC-GHz low-noise amplifiers, lasers, LEDs, lamps, and more.



**Image Processing** – advanced algorithms for optical quality inspection, OCR, and pattern recognition



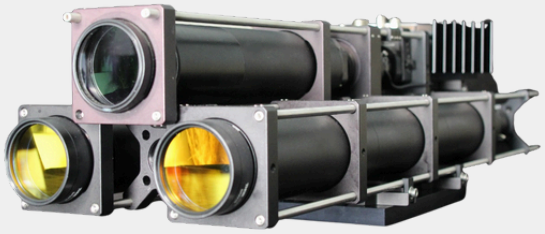
**Mechanical & Micro-mechanical Design** – precise mechanical components and structures, including micro-mechanics for advanced optical applications.




**LabVIEW Programming** – development of automation, control, and data acquisition applications with user-friendly interfaces.

# Products & Example Projects

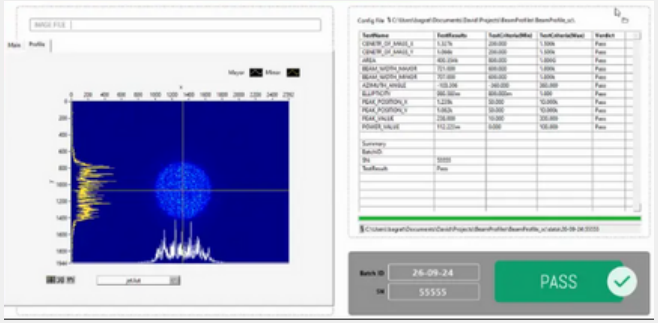
- **Telescopes, radiometers, and spectro-radiometers**

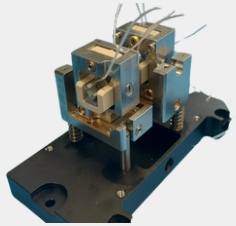




- Optical fiber inspection systems, LED and display inspection systems, and custom electro-optical testing equipment on demand.

- Laser Beam Profiler Application – software for analyzing and measuring laser beams, compatible with any camera and any spectral range, from UV to MWIR and LWIR. Can also integrate with existing cameras.



- QuantumAlign NLO Kinematic Stage – a high-precision kinematic stage with X-Y translation and angular control, designed for advanced nonlinear optics (e.g., Q-switch, SPDC) and tunable optical benches.

# Why Choose IZAK Scientific?

✓ Proven expertise in developing optical and photonic test equipment.

✓ Complete integration – hardware, software, and image processing under one roof.

✓ Tailor-made solutions designed to meet customer needs.

✓ Support and assistance throughout the entire product lifecycle.

✓ **Certified ISO 9001** – commitment to quality and controlled processes, audited by the Standards Institute of Israel

**Contact us today for an introductory call or a demo**



**Tzachi Sabati, CEO of IZAK Scientific**

A physicist with extensive experience and proven expertise in developing electro-optical, photonic, and quantum sensing systems.

*Together with my team, I am here to listen, advise, and deliver precise solutions – from initial concept to fully operational systems.*

*We look forward to being your partners in future projects.*

*Contact us today for an introductory call or demonstration.*

**Contact Information**

IZAK Scientific

🌐 www.izakscientific.com

✉️ Tzachi.Sabati@IzakScientific.com

📞 Tel: +972-72-250-5555

📞 Mobile: +972-52-3914231

📍 Atlit 3154, Israel