

Defense devices and hardware.

From idea to field-ready production. Under one roof.

We help defense-hardware teams industrialize their devices — mechanical, electronics, firmware and optics in one accountable team.



ISO 9001

ISO 13485

30 Years

Israel + Overseas

End-to-end capabilities, under one roof.

Every discipline you need to take a defense device from a concept on paper to a manufacturable, field-ready product. No vendor handoffs.

Mechanical

Handheld and benchtop devices. Motors & drivers (servo, stepper, brushed, brushless), liquid & air pumps, solenoids, tubing. Sheet metal, seals, elastomers, plastics — ruggedized to MIL-STD-810.

Thermal management

Active and passive cooling that keeps electronics alive in the field. Heatsinks, conduction paths, fan & airflow design, thermal-interface material selection.

Optical / Electro-Optical

LED selection, reflector design, beam collimation, power-density tuning. Optics designed alongside the mechanics, not bolted on.

Prototyping

Every stage of the project — quick PoCs, dazzling mock-ups, near-final working products. In-house FDM and SLA 3D printing, CNC, PCB prototyping, rapid injection moulding, custom jigs and fixtures.

Electronics & PCB

Mixed-signal, RF, power, motor control. Battery systems with wired & wireless charge/discharge. Bluetooth, sync/async buck-boost, LED drivers. Design-for-EMC toward MIL-STD-461.

Firmware & Embedded

Motor & pump control, sensor data, Bluetooth & USB interfaces, touchscreen UIs. Bare-metal or RTOS — whichever the platform calls for.

User interfaces

Touch-sense buttons, rugged mechanical keys, touchscreens, panels with status LEDs, simple LCDs. Designed to work under gloves in harsh field conditions.

Production

Hundreds to tens of thousands of units, Israel and overseas, with ISO 13485-aligned QA documentation.

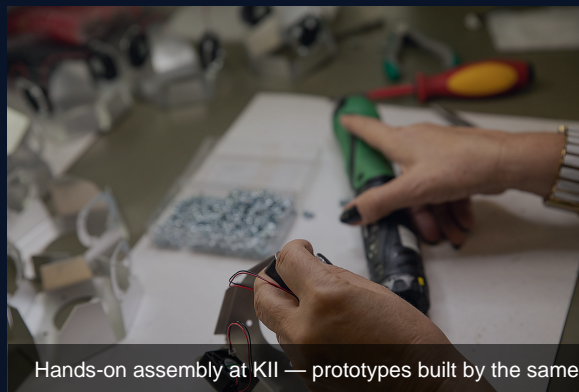
PRODUCTION

Hundreds to tens of thousands of units a year, Israel + overseas.

In-house PCB ordering, electromechanical assembly, optical-component integration, functional testing, ISO 13485-aligned QA.

A structured path from concept to production.

A 4-phase process that de-risks cost, schedule and quality from day one. Typical concept-to-first-units: 12–24 months by complexity.



Hands-on assembly at KII — prototypes built by the same team that designed them.

WHY DEFENSE TEAMS WORK WITH US

Integrated, not stitched

Mechanical, electronics, firmware and optics designed as one system. One accountable team.

Regulated-grade discipline

ISO 13485 medical pedigree gives you the traceability that ruggedized hardware demands.

Ruggedization built in

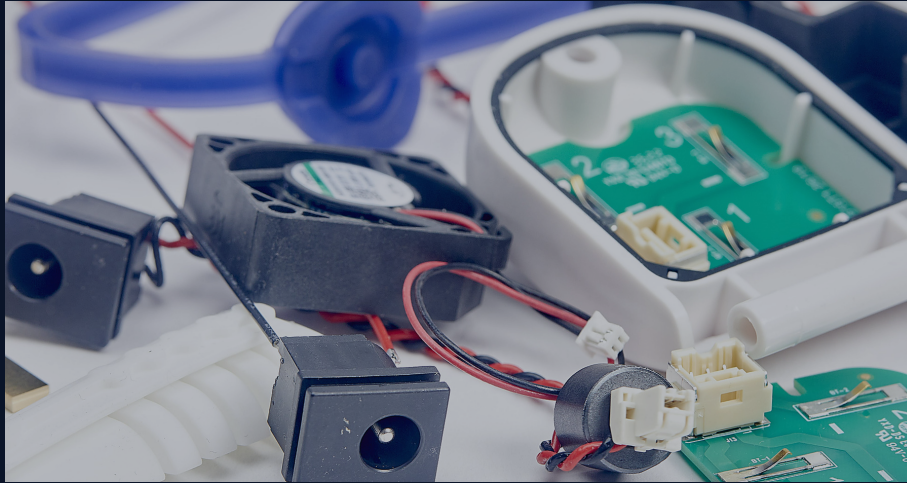
Design-to-MIL-STD-810 and design-for-EMC toward MIL-STD-461, validated by accredited labs.

Scalable production

Hundreds to tens of thousands of units, Israel + overseas, with full QA documentation.

Building a larger platform?

We also plug in as a mid-tech sub-assembly partner — control panels, control modules, sensor housings, ruggedized boxes, motorized assemblies. Full mech + PCB + firmware + optics under one ISO-certified roof.



GET IN TOUCH

Ask a question.

Tell us about your device, your timeline, or where you're stuck. We come back within one business day with a real answer — not a sales pitch.

Web defense.kii.am
Email info@kii.am
Phone +972-9-7940-500
Address 20 Hata'as St, Kfar Saba 4442520, Israel

Built by the team that designs your device.

Mechanical · Electronics · Firmware · Optics · Prototyping · Production

Defense systems development — a 4-phase roadmap

Six disciplines run in parallel from ideation to fielded system. Within-lane arrows show phase progression; dashed cross-lane arrows show the key dependencies between disciplines.

