

## Universal Hardware/Software

### Test Equipment for MALAM, IAI & Army

The defense industry of the third millennium is characterized by an endless aspiration to excellence, creativity and innovation. **The Chaban Group**, Israel's leader in the development, production and marketing of universal, **automatic test equipment (ATE)**, has gained much experience in developing, producing and marketing universal **hardware/software test equipment for electronic assemblies that provide customers with the generic and optimal solution**, with individual adaptation to their professional needs.

**You are invited to become acquainted with the high quality applications of the Chaban Group in this field:**

- **Engineering test equipment for the development and verification of software and hardware for the operational system**
- **Test equipment for P.O.D. (Proof of Design) tests during acceptance of the operational system**
- **Test equipment for the ATP production line (extended rear echelon [US = rear train], I-Level)**
- **Test equipment for customers maintenance ATP for repairs, maintenance and periodic calibrations production line (extended rear echelon [US = rear train], I-Level)**

Since it was founded in 1997, our development teams have worked diligently to upgrade the test equipment



and adapt it to the market requirements. In the year 2000, the test equipment was upgraded (by converting software and improving assemblies) and became the **flagship product of the Group and its customers - the Malam Company, IAI and the Ministry of Defense. Malam uses the universal test equipment for the rear echelon for developing and testing electronic assemblies for airborne platforms, many of which are classified.**

The test equipment is based on a **VXI, PC environments** and a high quality connection **Receiver interface (VPC)**, a combinations of standard off-the-shelf items, such as a pair of industrial PCs which contain a variety of communications cards (**IDEA1553**, D/A, A/D, RS232, RS422, etc.) and a diverse **VXI card cage** containing cards for switching, measurement ,discretes,TTL,D/A,A/D cards, with components of the highest quality that are developed by **Chaban**, such as the (**CMMI- CVI based**) operating software, the AC drawer and drawers for relays, loads, power supplies, loudspeakers and an ST adapter. Through modular integration of these quality components, the test equipment controls and monitors the 1553 communications, the VXI card cage with its variety of cards, the measuring instruments and standard [power] supplies through GPIB communications and a (**VPC Zero Force adapter interface**).

The (N.I.) **LabWin CVI software** environment is wrapped in a user interface that was developed by Chaban (**CMMI**) which operates a comprehensive self-test application (**Self-Test ITA**) and expansion options for a mobile configuration. Integration of a **mechanism program** that was **developed at Malam** permits extensive use of an High level programming language for hardware developers to implement various unit tests through specialized adapters.

And the result? Our customers benefit from the most advanced product of the highest quality, while maintaining the individual conformance of the test equipment to their present needs.

Like every product that leaves the **Chaban** establishment, this one also testifies to the uncompromising quality control of the Company: the performance of many technical reviews such as **CDR, PDR and SSR**, configuration of documentation and production files according to full **military standards** and phases of test equipment capability demonstration (**ATP/FAT/QTP**) integrated with malfunction simulations and high reliability requirements.

**The combination of the optimal product with professional service** from the three unique Chaban divisions provides our customers with **an exclusive turnkey product - from the developmental phase to the final production - to their complete satisfaction.**