

**Strategic Electronics**  
**Automated Test Equipment**  
**Electronics Test & Assembly Products**  
**Telecom Test & Photonics Products**  
**Reliability Test Equipment**  
**Railway Electronics**  
**Security Electronics**  
**IT Solutions**

**MEL SYSTEMS AND SERVICES LTD.**

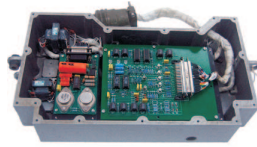
An ISO 9001:2008 Certified Company

## Strategic Electronics

### Design & Manufacture for Mil-Aero

MELSS has acquired experience in building electro-mechanical products that meet stringent standards of Airborne / Naval applications

- MIL Std Design and Manufacture
  - Contract manufacturing
  - Rugged Consoles, Terminals, Racks
- Ruggedisation of Electronic Units
- Re-engineering of LRUs / PCBs



### Simulators

MELSS designs and provides re-engineering / upgrade support for simulators

- Small Arms Training Simulators (IFATS)
- Aircraft System Training Simulators
- Combat System Simulators
- Marine Simulators
- Computer Based Training Simulators



## Automated Test Equipment

### MELSSWizard Platform

The MelssWizard (earlier known as BoardWizard) as a standard product, has been sold to over 850 + PCB repair and maintenance labs across Telecom, Defence, Space, Machine Tools, Power, Textile, Petroleum, Transport and Steel industries.

Now, MELSS offers customized solutions built around this proven and cost effective platform, including development of test programs for specific boards.



### cPCI / VXI / PXI Platform

MELSS also specializes in manufacturing custom functional ATEs based on COTS platforms such as cPCI, VXI, PXI and LXI integrating custom built switch matrix cards, programmable power supplies and standard instruments. MELSS develops custom software for functional Go / No-Go test as well as component level diagnostic test using tools such as LabView, LabWindows and Visual Studio.

### Teradyne & LASAR Platform

The Teradyne Spectrum S9100 functional test platform along with the LASAR Simulation software, is an open standard COTS - test platform - widely adopted by the defence / aerospace industry across USA, Europe and Asia. MELSS offers complete turnkey solutions built around this platform including migration and rehost of old test programs from legacy testers to this new

### Fixtures and Test Jigs Spring Loaded Probes and Receptacles

MELSS Manufactures fixtures and jigs at its facility in Chennai.

- Functional Test Fixtures
- Pneumatic / Vacuum / Manual
- Standard & Custom Jigs
- Spring Loaded Probes & Receptacles (POGO Pins)



### Cable & Harness Testers

Cabletest offers specially configured test systems that can automatically scan - switch and electrically test - tens of thousands of cable / connector points within a short time. Low-voltage, low-current tests as well as high voltage break down / insulation tests can be conducted on cable assemblies, harness, backplanes etc. Cable test products are extensively used in Defence, Aerospace and Marine industries.

### RF ATE



MELSS offers standard and custom RF ATE systems for manufacturing and maintenance test environments. These systems include:

- Radio Test Sets
- Radar Communication ATEs
- Portable Maintenance Devices

## Reliability Testing Equipment

### Vibration Test Systems

Vibration testing is an essential part of reliability testing in Electronics, Automobile, Defence and Aerospace segments. MELSS has over 20 years of experience in sales and support of vibration test systems in India.



### HALT / HASS Chambers

Qualmark offers their widely popular Typhoon series of HALT/HASS (Highly Accelerated Stress Screening) chambers to Indian customers through MELSS.

## Security Electronics

MELSS manufactures / support high technology electronic systems for integrated security systems.

- Under Vehicle Inspection
- X-Ray Baggage Inspection
- Through Wall Radar

## Railway Electronics

MELSS offers a range of products and solutions including:

- PCB Repair Services
- Diagnostic Test & Repair Lab Solutions for PCB
- Functional Test / Repair Validation Solutions for PCB
- Manufacture of Electrical and Electronic Products

## Electronics Test & Assembly Products

### Test & Measurement

MELSS offers a range of test equipment from Chroma ATE. Please ask for our 200 page PDF catalogue. Some of the most popular applications are listed below for reference.

**Power-supply Testing:** Programmable DC Electronic loads, Programmable AC / DC Sources, Power analyzers, SMPS and Telecom power supply systems and many more.

**Passive Component Testing :** LCR meters, Transformer testers and many more.

**Video / Display Testing :** LCD / CRT Video pattern generators, Color analyzers etc.

**Safety Testing :** Hipot testers, IR Testers, Ground-bond testers, Safety analyzers etc.



### EMC Test Equipments

Noise Laboratory Co. Ltd., Japan is a specialist manufacturer in pulsed EMI simulation test equipments. Few of the products are:

- Electro Static Discharge (ESD) Simulator
- Fast Transient/Burst Simulator
- Impulse Noise Simulator
- Automotive Transient Surge Simulator
- Lightning Surge Simulator, and others ...

### ESD Testers and Consumables

MELSS provides complete range of anti-static testers and consumables including:

- ESD Testers & Test Benches
- Storage and Material Handling Consumables, others

### Other Products for Electronics Assembly

Inspection Systems Video Microscope and BGA Inspection Scope

### Device Programmers

Xeltek SuperPRO ® range of programmers support all families of memory devices in various PTH / SMT / Other packages.

- Gang Programmers
- Universal Programmers
- In System Programmers



### Assembly and Test Tools

MELSS provides wide range of tools for electronics assembly and rework bench from OK International Inc, USA.

- Soldering and De-soldering
- SMT and BGA Rework Tools
- Fume Extraction Systems
- Fluid Dispensing Systems

The Metcal® Array Package Rework (APR) series - full convection BGA / CSP rework system delivers excellent thermal performance.

Metcal® SmartHeat® technology provides highly repeatable process control with power-on-demand for soldering applications. This unique technology does not require any temperature setting or calibration.



## Telecom Test & Photonics Products

### Network Characterization



EXFO is a leading provider of test and monitoring solutions for network service providers and equipment manufacturers in the global telecommunications industry. The Telecom Division offers a wide range of innovative solutions extending across the full technology lifecycle from design to technology deployment

and onto service assurance and covering all layers on a network infrastructure to enable triple-play services and next-generation converged IP networking.

### Prism Coupler Based IOR Measurement System



Metriton Model M2010/M is the world's first prism coupler system which accurately measures both the thickness and refractive index/birefringence of dielectric and polymer films.

### Photonics

Thorlabs is a name synonymous with the community of Photonics industries. Catering to the needs of Educational Institutes and Research Establishments, their product range is wide and deep.

### Optical Fiber Characterization

Photon Kinetics is a world leader in automated testing solutions for optical fiber and cable manufacturing and R&D. They provide measurement technology to suppliers of optical transmission systems, network monitoring and field test equipment.



### IT Solutions

Software services for application development and integration. Solutions for various verticals including Retail, Education and Healthcare.

On-demand web based solution for Customer Relationship Management (CRM) - [www.melssc.com](http://www.melssc.com)



## About MELSS

MEL Systems and Services Ltd (MELSS) was formerly Murugappa Electronics Ltd., a member of the Rs. 15,000 crore Murugappa Group. MELSS has been a leading supplier of high technology products since 1982. MELSS has its Corporate Office and factory on the IT highway at Perungudi, Chennai.

MELSS Automation Limited is a subsidiary company, focusing on turn-key Industrial and Process Automation Solutions. The factory is located at Sriperumbudur on the Bengaluru Highway with facilities for sheet metal fabrication, mechanical systems design and manufacture, besides integration of PLC based automation systems and development of SCADA software.

### Our competencies:

- Technology and process consulting
- Pre-sales support
- Sourcing and supply of Suitable equipment
- Manufacturing
- Engineering design and System integration
- Project implementation
- Technical / Application support
- Service support.



# Advanced Technology ... Total Support



## MEL SYSTEMS AND SERVICES LTD.

An ISO 9001 : 2008 Certified Company.

173 Developed Plots Estate, Perungudi, Chennai 600096, India.  
Tel : +91 44 2496 1903/1904. Fax : +91 44 2496 0488. E-mail : sales@melss.com

[www.melssindia.com](http://www.melssindia.com)

<b>Delhi</b>	: +91 11 25727731/41539331, melssdel@melss.com
<b>Mumbai</b>	: +91 22 2518 0915/16, melssbom@melss.com
<b>Kolkata</b>	: +91 98312 54486, melsscal@melss.com
<b>Bangalore</b>	: +91 80 22206652/22266546, melssblr@melss.com
<b>Secunderabad</b>	: +91 40 27717498/27709583, melsshhd@melss.com
<b>Pune</b>	: +91 22 2518 0915/16, melsspune@melss.com,
<b>Coimbatore</b>	: +91 422 2450405, melsscbe@melss.com