



## THE AUSTRALIAN PIONEER IN OVERHAUL AND REPAIR SOLUTIONS FOR LCD DISPLAYS



Unparalleled Technical Expertise

THOMAS ELECTRONICS OF AUSTRALIA (TEOA) has been providing high quality and high yield repair solutions for Liquid Crystal Displays (LCD) to Australian and international clients since 2000.

Combining years of relevant experience with state of the art equipment, TEOA is the premier Australian service provider of technical support for LCD display systems and products. TEOA services a wide spectrum of industries including, but not limited to, defence, aerospace and bio-medical.

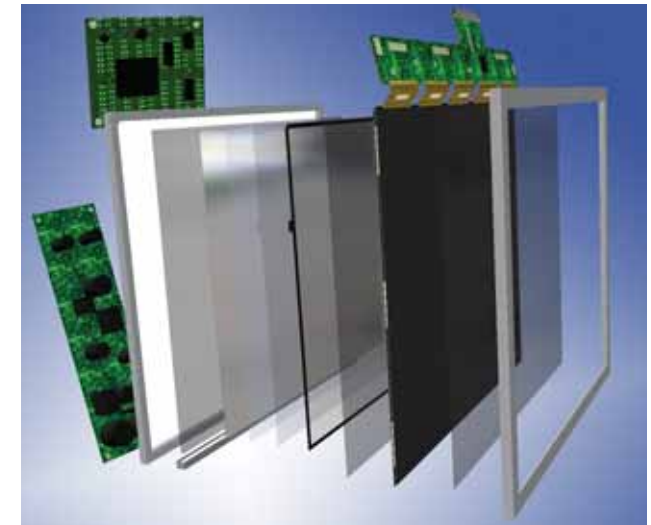
TEOA's in-house engineering resources, coupled with state-of-the-art infra-structure, are second to none in Australia.

### Specialists in TFT Repairs

TEOA procedures are developed to provide efficient results, covering all levels of repair from routine maintenance to complete overhauls. When all work has been completed the end-product is identical in form, fit and function to a new one.

Cost-effective overhauls, repairs and refurbishments are available for a wide range of LCD products and systems. A wide range of platforms and applications are supported, including consumer electronics, aircraft displays and weaponry simulators.

Specialised solutions are also available for unique client requirements.



A component level view of a typical LCD panel

### Technical Capabilities

- Tab replacement
  - Chip on Film (COF)
  - Chip on Glass (COG)
- Polariser replacement
- Electronic component repair
- Backlight replacement



## State-of-the-Art Facilities

### Clean Room Environment

- 16 sq metres of Class 3.5 (US standards 100)
- 100 sq metres of Class 3500 (US standards 100,000)

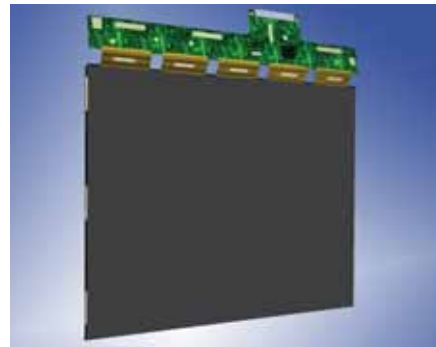
### State-of-the-Art Equipment

- Up to 65" LCD panels
- Plasma screen repairs
- Tab bonding
- Polariser replacement

## A Commitment to Technology and Quality

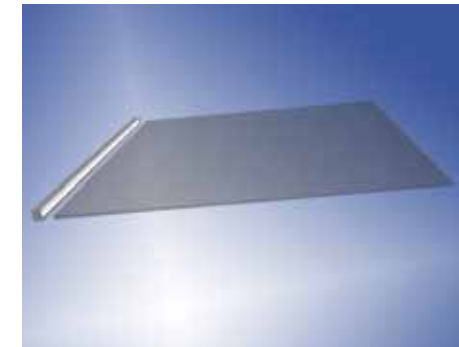
TEOA works to consistently maintain and upgrade the world class level of technical support and services that clients have come to expect. The company is constantly looking to invest in newer and better technologies and equipment.

Current facilities include a Class 3.5 and Class 3500 (US standards 100 and 100,000 respectively) clean room, polariser replacement machines and tab bonding equipment that is capable of supporting both chip-on-film (COF) and chip-on-glass (COG).



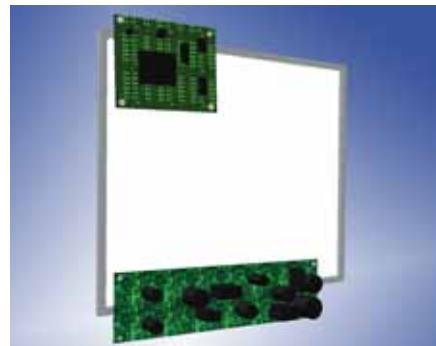
### Driver (TAB) Repairs and Replacements

When lines appear across a display panel, this usually means that there is a fault with one or more drivers (tabs) in the unit. At TEOA, tab-bonding equipment enables the faulty tabs to be isolated and then repaired or replaced accordingly.



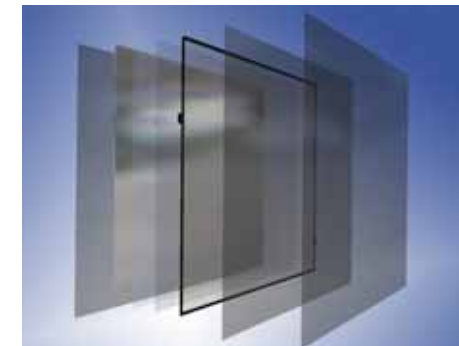
### Backlight Replacements

In LCDs, backlights are integrated onto the edges of the display. A diffuser is placed behind the display to evenly channel illumination across the panel. Dimming or insufficient illumination is usually indicative of defective backlights in the panel. By replacing the backlights, TEOA is able to refurbish the panel to its original lighting level.



### Electronic Repairs

Where faults are ascertained to be with the electronic components on the display panels, TEOA is able to repair or replace the faulty electronics, thereby returning the panel back to working condition.



### Polariser Removal and Replacements

Polarisers are thin films layered onto both sides of the LCD panels. Scratches appearing on LCD panels are usually scratches etched onto the polarisers. Using state-of-the-art equipment the polarisers can be replaced eliminating all scratching.

