

# THOMAS ELECTRONICS OF AUSTRALIA PTY. LTD.



## DISPLAYS IN AVIONIC SPECIALISTS

- Cost Effective Display Unit Support
- Serving International Airlines and MROs
- Fast Turnaround Service
- Quality Certified

## DISPLAY LEADERSHIP

*With an outstanding record of reliability and cost-effectiveness, Thomas' support capabilities have established themselves as the preferred solution for avionic display support.*

### **Cost Effective CRT Repair**

Avionic Displays are an essential element of the cockpit environment but have a significant removal rate and are costly to support. Traditionally, the CRT assembly as the major life-limited component has been treated as a non-repairable item so, when a failure occurs, it is replaced with a new part. This is often unnecessary. The unique display component repair process pioneered by Thomas Electronics of Australia, provides an innovative and cost-effective alternative to part replacement.

The Thomas initiative maximises the value of the operator's original investment by recognising the inherent serviceability of the CRT assembly to extract full value. The repaired assembly is returned in "as new" condition, identical in "form, fit and function" to the original part. The performance of the repaired assembly matches, and in some cases, exceeds the equivalent new component. All repaired components retain their original part and serial number ensuring full traceability to the original component.

### **International Clientele**

The Thomas Electronics repair process is a proven solution, having been used extensively by major air transport operators since 1989. In addition to providing support for major airlines such as Qantas, Korean Air, Lufthansa, Air France KLM, United Airlines, British Airways, Fedex and Delta Airlines, Thomas Electronics is the designated depot-level support facility for cockpit displays used by the Australian and New Zealand Defence Forces and is a Defence Recognised Supplier - Strategic Capabilities.



### **Quality Assurance**

Work procedures and repair schemes developed by Thomas Electronics are carried out under Certificates of Approval issued by the Civil Aviation Safety Authority of Australia (CASA), General Administration of Civil Aviation of China (CAAC), the United States Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA). Repaired displays are supplied with either a CASA Authorised Release Certificate, US FAA Form 8130-3, CAAC Form AAC-038 or EASA Form I.

Thomas Electronics enjoys close relationships with a number of major aerospace OEM's including Thales, Honeywell, Raytheon, L-3 Communications and Boeing. They recognise Thomas Electronics specialist capability in the development, integration and servicing of display technology based hardware.

### **Commitment to Current and Future Technology**

Thomas Electronics recognises the significant investment of operators in CRT technology and will continue to provide high levels of support and assistance to CRT based displays. The recent development of Thomas' LCD repair facilities demonstrates a commitment to supporting new technologies as they come into service. The service offered enables airline operators to enjoy cost effective support of their display units, regardless of technology, both now and into the future.

### **Certifications**

FAA – US Federal Aviation Administration – FAR – 145 Repair Station – Certification Number: T16Y1690

EASA – European Aviation Safety Agency – Part 145 Approved Maintenance Organisation  
Certification Number: EASA.145.0311

CASA – Civil Aviation Safety Authority (Australia) -  
Certification Number: 2422

CAAC – General Administration of Civil Aviation of China  
– Certification Number: F06100387

ISO 9001-2000 QMS

± SGS Certification Number: AU98/1062

# Avionic CRT Repair Capabilities

	Aircraft	Display unit	Manufacturer	LRU part number	CRT part number
<b>Boeing</b>					
	B737-300/400/500	AN/CDU	Smiths	167550-01-01	167147-xx
		AN/CDU	Smiths	167550-01-01	172881-xx
	B757-200	FMS/CDU	Honeywell	4038170-xxx	4040324-xxx
	B767-200/300ER	FMS/CDU	Honeywell	4038170-xxx	4040324-xxx
	B747-400	ND/PFD/EICAS (DU-7000)	Rockwell Collins	622-8588-105	687-9774-xxx
		FMS/CDU	Honeywell	4058650-xxx	4058657-xxx
	MD-80 Series	EHSI/EADI (MD-80 EFIS)	Honeywell	4056510-xxx	7003114-xxx
		FMS/CDU	Honeywell	4058000-xxx	4058009-xxx
	MD-11	FMS/CDU	Honeywell	4059051-xxx	4058657-xxx
		PFD	Honeywell	4059010-xxx	4071741-xxx
<b>Airbus</b>					
	A300-600R	EFIS/ECAM (FCD-55)	Sextant / Thales	20662155	20667764*
		EFIS/ECAM (FCD-55)	Sextant / Thales	20662155	20667765
		CDU	Smiths	1013101	102637-xxx
		FMS/CDU	Honeywell	4059051-xxx	4058657-xxx
	A310-200	EFIS/ECAM (FCD-55)	Sextant / Thales	20662155	20667764*
		EFIS/ECAM (FCD-55)	Sextant / Thales	20662155	20667765
		CDU	Smiths	1013101	102637-xxx
		FMS/CDU	Honeywell	4059051-xxx	4058657-xxx
	A319/320/321	EFIS/ECAM (FCD-66)	Sextant / Thales	3906130302	39060-967*
		EFIS/ECAM (FCD-66)	Sextant / Thales	3906130402	
		EFIS/ECAM (FCD-66)	Sextant / Thales	3907130302	
		EFIS/ECAM (FCD-66)	Sextant / Thales	3907130402	39061-341
		FMS/MCDU	Honeywell	4055500-xxx	4053520-xxx
	A330/340-200/300	EFIS/ECAM (FCD-66)	Sextant / Thales	45606111	39060-967*
		EFIS/ECAM (FCD-66)	Sextant / Thales	45606112	
		FMS/MCDU	Honeywell	4055500-xxx	4053520-xxx
<b>Bombardier</b>					
	Dash 8 series	EHSI/EADI (ED-800)	Honeywell	7003110-xxx	7003114-xxx
	CRJ	ECD/MFD/PFD-870	Rockwell Collins	622-8529-005	659-7536-xxx
<b>Bombardier</b>					
	Bae 146	EHSI/EADI	Honeywell	4056510-xxx	7003114-xxx
<b>Fokker</b>					
	F70/F100	EHSI/EADI (DU-1000)	Rockwell Collins	622-7484-442	659-7544-xxx
	F50	EHSI/EADI (ED-800)	Honeywell	7003110-xxx	7003114-xxx
		Alarm Annunciator (ID-80x)	Honeywell	7003652-xxx	7004802-xxx

\*Filter panel replacement

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[www.thomas.com.au](http://www.thomas.com.au)

## **Products and Services**

- Specialist depot level repair to
  - Electronic display systems
  - Military-spec electronic systems
  - Switch-mode power supplies
- Avionic display repair
- Customised engineering solutions
  - Engineering design
  - System integration
  - Electronic assembly
- Off-the-shelf equipment and product sales
- Technical support and sustainment for:
  - Commercial and military flight simulators
  - Weapon systems simulators

## **Product Lines**

- Conrac GmbH
- D. Marchiori (DMA)
- Vartech Systems

## **Our Commitment to Customer Service**

- We listen to you, our clients
- We are always ready to help
- We respond to your immediate and long-term needs
- Our goal is to exceed expectations

## **We welcome the ongoing challenge**

**THOMAS**  
**ELECTRONICS**  
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