

CRT BURN-IN STATION

Avionics Display CRT Burn-In Station – TVS503

Many B737 / 757 / 767 Airline Operators and MROs would be surprised to find out that they can purchase “Un-Burnt” CRT Assemblies from the OEM at a reduced price. However, in order to take advantage of these “Un-Burnt” CRTs, the standard CRT Burn-in must be performed on the Automatic Test Equipment (ATE) . Whilst some Airline Operators and MROs are enjoying the cost savings, they are placing additional load on their ATE, which can outweigh the savings made by purchasing “Un-Burnt” CRTs.

Cost-effective Solution

The TVS503 Burn-In Station has been designed to address this issue, and can operate the CRT Assembly independently of the ATE and LRU. This allows load on the ATE to be reduced, thus saving an Airline or MRO from purchasing additional ATEs, or operating additional shifts.

Multi-functional Design

The unique design of the TVS503 Burn-In Station will improve your EFIS maintenance procedures with feature benefits such as an adjustable “Burn-In” time, a reliable failure detection system to protect the CRT assembly and auto shutdown on completion. The unit can also be customised to match your other EFIS requirements. The TVS503 is designed to be housed as part of a 19” Rack system or as a standalone benchtop unit.

Low-cost Alternative for B737 / 757 / 767 Operators

This cost-effective test and conditioning unit will free up precious time on your valuable ATE and allow an Operator to fully take advantage of the cost saving of purchasing “Un-Burnt” CRT Assemblies. If your annual usage of CRT’s is over 20 units, then the payback period for the TVS503 Burn-in Station could be less than 12 months.



TVS503 - Bench Top Unit



TVS503 - Front Panel

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Features

- Vertical Size, Horizontal Size and Brightness Adjustment.
- Cathode Current Measurement (Red, Green, Blue, White (default))
- Anode / Focus Voltage Metering
- Start/Reset, Pause, Continue Burn-In Switches
- Burn-In Complete, In Progress and Fault Indicators
- Horizontal and Vertical Short/Open Circuit Protection (scan collapse)
- Heater Over Voltage and Open Circuit Protection
- Beam Current Limiting
- Safety Interlock Switch for CRT cabinet

General Specifications

- Enclosure 6U high 19" rack case (bench top or with slides for rack mounting).
Optional 18U high rack cabinet for mounting 3 separate units.
- Cooling Forced Air
- Power 240V 50 Hz or 110V 60Hz IEC socket configurable
- Timer 90 hours nominal, configurable up to 300 hours

Electrical Specifications

Output Voltages:-

- Anode 17kV nominal (configurable to any CRT)
- Focus 2.5kV~3kV nominal (configurable to any CRT)
- Heater 6.0V nominal (configurable to any CRT)
- G1: 0V nominal (configurable to any CRT)
- G2: 100V – 1000V adjustable (configurable to any CRT)

(The specifications outlined are for the EDU-776 / EDU-766 CRT Assemblies).

Applications

- Operates CRT Assembly P/Ns 257-0267-010 & 257-0267-020 (Standard Configuration).
- Can be configured to match other CRT assemblies.

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