

F-15 Avionics Products

BAE Systems provides total life-cycle solutions, responding to customer's requirements in overcoming avionics obsolescence and/or providing enhanced capabilities to legacy avionics systems. When there is incomplete system data, we reverse engineer the legacy avionics to accurately determine the system requirements. Utilizing multi-level simulation, our engineers rapidly design and fully qualify replacement modules, circuit cards, units, and systems.

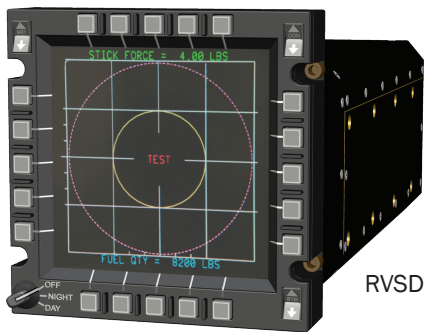
Working in a cooperative Integrated Product Team environment with the customer, our development team specializes in systems requirements definition, development (including design for test), fabrication, integration, testing, and qualification of sophisticated electro-mechanical avionics assemblies. Our total life-cycle solution is completed with a full logistics support package.

As us today about our multiple avionics products that have been developed to provide customers with effective and capability enhanced replacements and upgrades.

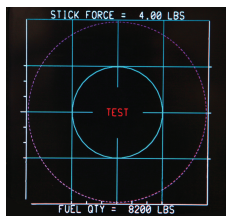


BAE Systems 5" x 5" Replacement Vertical Situation Display (RVSD) is a functional concept demonstrator for the Vertical Situation Display Replacement. The Replacement VSD (RVSD) builds upon our previous 4" x 4" AMLCD replacement program for the VSD, provides 56% larger display, and exercises its full color capability. The RVSD maximizes re-use of proven and qualification tested (Ambient & Environmental) hardware and complex signal processing techniques. BAE Systems RVSD processes electrical signals from the aircraft's legacy Programmable Signal Data Processor (PSDP) to provide a color representation of the different intensity symbols. This color differentiation is a significant enhancement over the previous method that solely relied on intensity differences for the symbols. BAE Systems RVSD concept also provides full processing of R, G, B, X & Y signals anticipated in the future signal data processor. The 5" x 5" RVSD fits into the existing aircraft instrument panel without modification – and only requires a modification to the non-structural glare shield. In addition to a larger full color display to support the legacy and a future signal data processor, the NVIS compatible RVSD provides an NTSC video output for mission data recording; while at the same time providing improved reliability, maintainability, and BIT performance over the legacy ANMI/VSD.

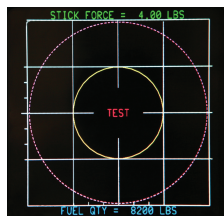
The U. S. Air Force has placed an order for the BAE Systems Flat Panel Control Indicator (FPCI) which will replace all F-15 C/D Navigation Control Indicators (NCIs) in the USAF/ANG inventory. While the FPCI is a 'drop in replacement' for the NCI, the new FPCI replaces the legacy controls/display with an NVIS compatible 3" x 4" AMLCD display. The FPCI utilizes a soft-key menu system to enable expanded control functionality for the future. In addition to the NCI functionality, the FPCI includes MIL-STD-1553B remote terminal capability and 2 expansion cards with configurable I/O plus an additional serial bus. The FPCI is reprogrammable via 1553B data bus, enabling it to control new or existing systems as future requirements dictate; all without hardware modification nor requiring removal of the FPCI from the aircraft. The FPCI greatly improves reliability (over 5800hrs MTBF predicted), maintainability and sustainability over the legacy NCI while simultaneously adding significant enhancements in capability to meet the future needs of our customers.



RVSD



Synthetic Color Mode



RGB Color Mode



FPCI



Legacy NCI

Disclaimer and copyright

This document gives only a general description of products and services and except where expressly provided otherwise shall not form part of any contract. From time to time, changes may be made in the products or conditions of supply.

BAE SYSTEMS is a registered trade mark of BAE Systems plc.

Month.Year.Document initials.Designer code (eg. 02.11.CSR.001)

Non-Export Controlled, Releasable to Non-US Persons per S2DSEA2011-0505

SB.09.11.SS.014

For more information contact
 Todd Warton
 BAE SYSTEMS, Support Solutions
 Mobile: (850)-420-8940
 Email: todd.warton@baesystems.com
 www.baesystems.com