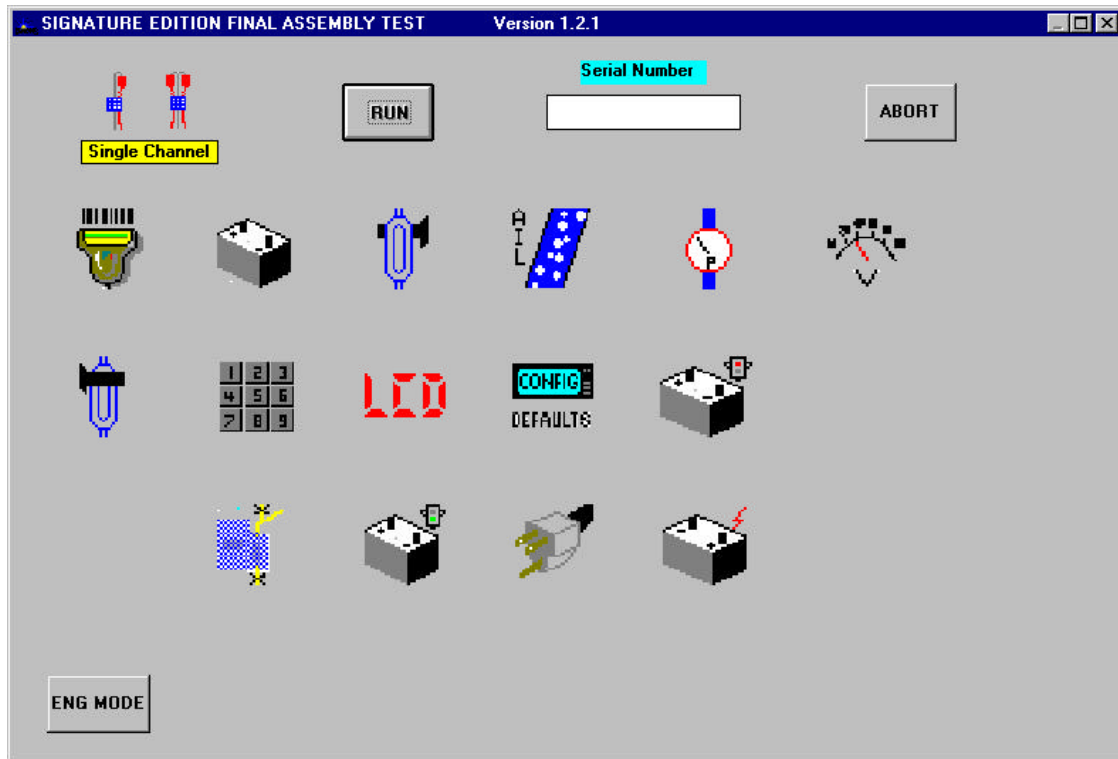


The Problem:

Medical equipment manufacturers often need to automate production testing of their final product, to lower manufacturing costs and/or improve quality control by reducing human errors in the process. Customized test equipment for system testing has traditionally been difficult to justify due to high capital outlays, and labor intensive development cycles. Our customer needed a low cost final test system, that would aid them in meeting FDA requirements and was easy to use and maintain.

The Solution:

Aspen Test developed a PC based system using CDS instruments and Visual Basic (VB) software. Drivers were written to interface the CDS chassis to the PC through a GPIB cable and to interface the VB communications with the UUT. VB code was developed to control all production test functions automatically, such as electrical stimulus and response, pressure force and measure, and robotic push button controls for the front panel (shown below). The system also handled all data collection and reporting, networking, calibration and diagnostics. Operator functions were reduced to simple clicks on an icon and made virtually free from user errors.



Hardware Used:

CDS 53A-522 DMM
CDS 53A-258 D/A
CDS 53A-332 Scanner
CDS 53A-353 Switch

Software Used:

Visual Basic