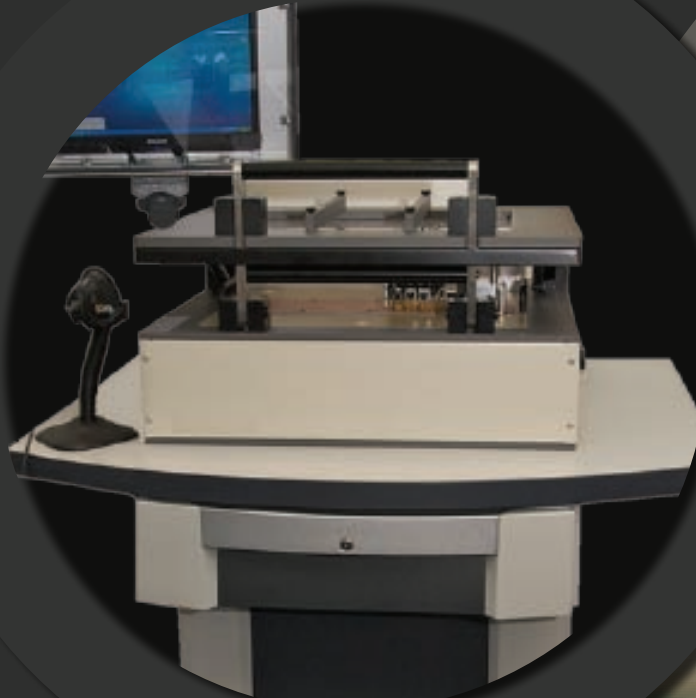


# Universal Test System

wide ranging applications

CPE Systems has developed Automated Test Systems for a broad range of industries and applications. This experience has prompted the development of a Universal Test System (UTS), which provides a foundation for many common test system requirements. Using industry standard hardware and software, the Universal Test System provides a core platform that can easily be adapted to meet the specific requirements of most testing applications.



## Key Features

- ⦿ Incorporating personality modules for the test fixture base, UTS can easily be modified to cater for varying production test configurations and specifications.
- ⦿ The use of a common platform along with configurable, modular instruments greatly reduces the development time and cost for any test system.

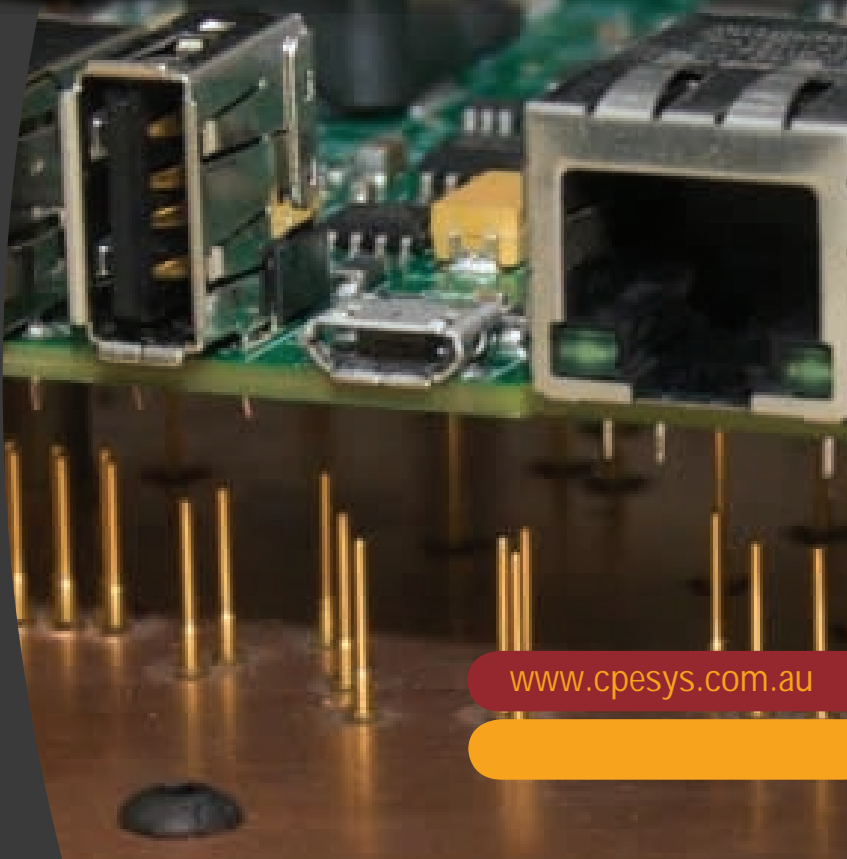
### Test Systems

Engineering & Scientific Software

Data Management & Presentation

Control, Automation & Vision

Structural Health & Condition Monitoring



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# Universal Test System

## specifications

### Standard Components

- 19" Rack – Suitable for under bench placement
- National Instruments PXI System including
  - o 8 Slot Chassis
  - o Windows Dual Core Controller
  - o 6 ½ Digit DMM and LCR Meter
  - o Dual Channel, 0 – 48 VDC, 60 W programmable Power Supply
  - o 48 Channel Multiplexer
  - o 16 x 10V Analogue Inputs
  - o 24x DIO channels
  - o 2x 10V Analogue Outputs
- 17" LCD Monitor, Keyboard and Mouse
- E Stop and electrical protection for all equipment
- Mechanical Fixture Base

### Optional Components

- Free standing 19" rack with integrated display
- Barcode scanner
- Additional power supplies
- 4 additional PXI slots suitable for
  - o Additional Switching and Multiplexing
  - o Additional I/O Modules
  - o Any suitable PXI module
- Pneumatic Fixture Base

### Software

Each unit to be tested will require instrument drivers and Test Sequences to be developed according to the test requirements. Test system software is developed using the National Instruments LabVIEW and TestStand development environments, allowing for rapid development and greatly reducing development time and cost.

### Test Fixture

The Universal Test System comes with a mechanical test fixture base, which accepts test fixture inserts that are designed to meet the specific interface requirements of the units to be tested. These inserts allow for maximum use of the core test equipment and allow for easy changeover of the Test System for new products. The mechanical fixture base can be upgraded to a pneumatic or vacuum fixture if required.

### Pricing

Prices will depend on the Test System configuration and requirements for the units to be tested, however the base system starts at \$45K AUD, Test Fixture inserts start at \$8K AUD.

