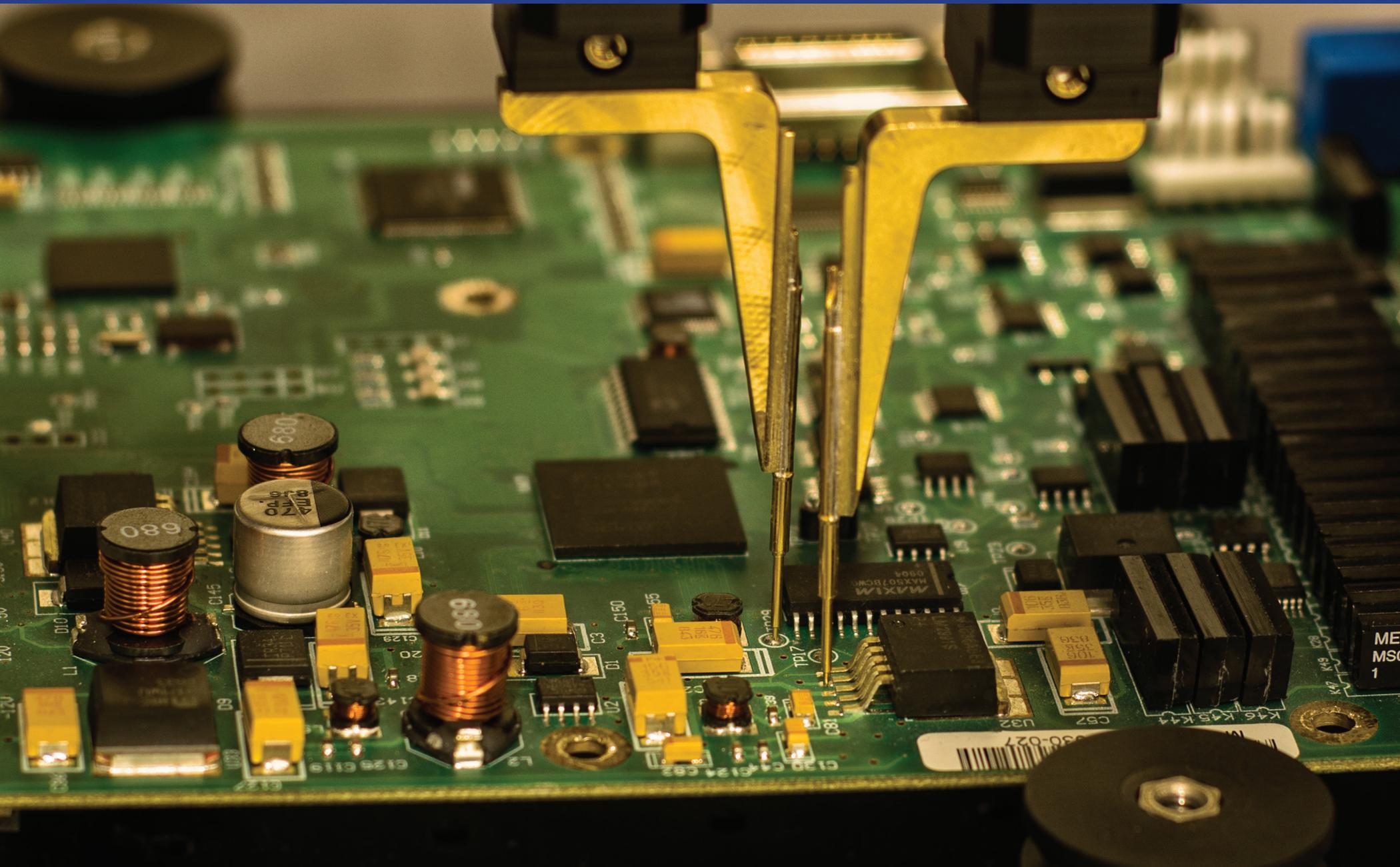


HUNTRON

Huntron Access DH2 Automated Probing Station



Place Two Probes Exactly Where You Need Them

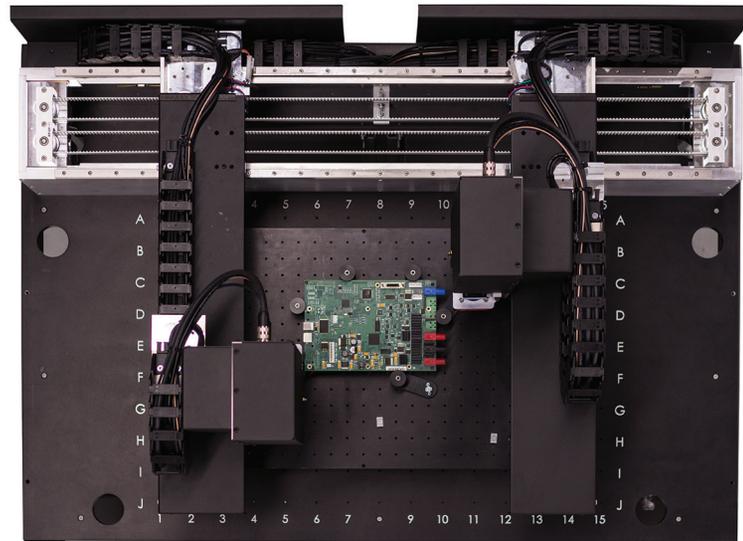
The Huntron Access DH2 Prober is a dual head, fixtureless flying probe platform providing precision probe placement for automated test and measurement. This system is best suited for low volume production, laboratory automation and legacy PCA (printed circuit assembly) testing where interfacing between two points is necessary. The open architecture platform combined with the dual heads provides a flexible solution for accessing densely packed surface-mount components as well as through-hole devices on the most complex boards. The Huntron Access DH2 can be used with traditional Huntron Tracker products, configured to work with conventional test instruments, (oscilloscopes, digital multimeters, etc.) or used with specialized test approaches such as boundary scan. The Access DH2 design empowers users with a plug and play approach to automating manual guided probe applications.

Benefits of Automation with the Huntron Access DH2

- Cost effective, open architecture robotic platform
- Repeatable, accurate X, Y and Z movement for precise probe placement
- Design, manufacturing and service depot applications
- Realize savings from increased productivity, shortened repair cycles and asset recovery
- Prototype and first article testing - faster time to market
- Develop custom integrations using Workstation Remote Control and Huntron SDKs
- Support Legacy products that have limited or no documentation

Adaptable by Design

The footprint of PCAs are often irregular in shape and have various sizes and densities. This creates physical challenges for probing or testing. The open platform design of the Huntron Access DH2 and base plate grid layout provides a wide range of PCA mounting options. Ease of preparing the PCA for test provides added benefits of increased test speed, repeatable results, better accountability, decreased operator error and reduced risk to the device under test.



The probing area of the Access DH2 allows for maximum flexibility when positioning the PCAs you want to test.

The Huntron Access DH2 makes it possible to complement traditional fixtures (mechanical, pneumatic, electromechanical or vacuum) by allowing access to additional points during test.

Another factor to consider is the overall cost savings when faced with low volume and a wide varieties of PCAs. In these situations, changing from one test to another quickly is vital. Adapting the Access DH2 system to handle multiple test types at both the hardware and software levels is very straightforward.



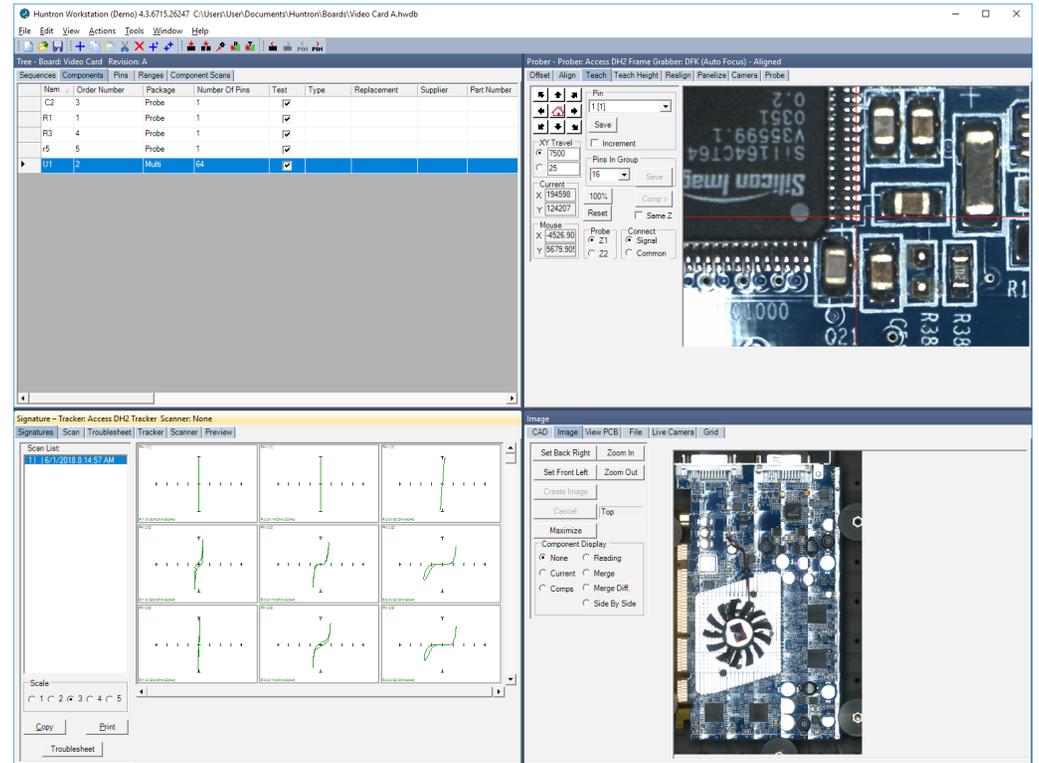
The Access DH2 provides ample space for large circuit boards and assemblies such as circuit board fixtures, Interface Test Adapters and more.

Huntron Workstation - Powering the Huntron Access DH2

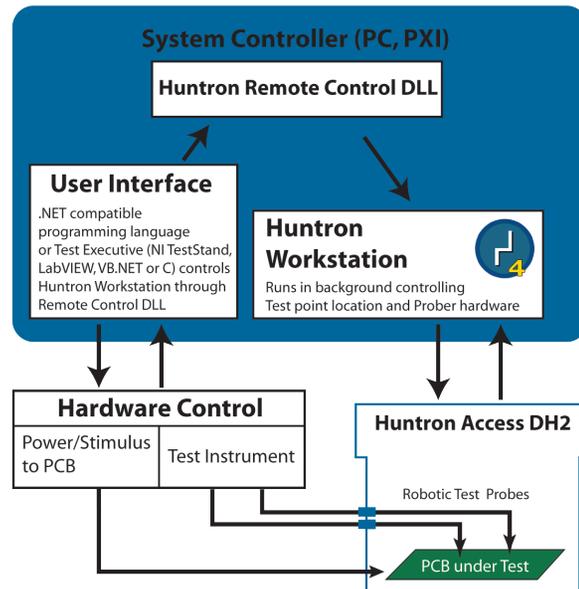
The Huntron Workstation Software is designed to bring a high level of efficiency and flexibility to board test creation and troubleshooting. The multiple pane layout of Huntron Workstation allows for fast test creation, quick viewing of signatures or waveforms, control of robotic probers and CAD information tools that update on the fly.

The Huntron Workstation workflow starts with creating a test plan that includes the components on the circuit board where measurements are taken. Once the test plan is created, the Access DH2 Prober is utilized to set the location the components using a camera based Teach system. When the components are located the test plan is executed on a functional circuit board where the Access DH2 places the probes at each test point and captures a measurement. These measurements are then stored into the test database to be used as a reference for comparison. From this point, the test plan can be executed on suspect circuit boards where the captured measurements are automatically compared to the stored reference measurements. A Troubleshoot displays the measurements that fail the comparison to stored references. This information can be saved to a report and exported to popular formats such as PDF, XLS and CVS.

These tests can function as a first pass before power-on verification, component level diagnostics for circuit board repair or to help isolate defects on circuit boards that fail in-circuit test during production.



The Huntron Workstation main interface is designed with multiple panes that can be undocked and rearranged. Each pane controls a specific function within the software.



Custom Integrations with Workstation Remote Control

Workstation Remote Control allows custom software applications to control tests created with Huntron Workstation in a remote mode. By using Remote Control you can take advantage of the test creation capabilities of Huntron Workstation to achieve the functionality needed without extensive programming. This is especially useful for customers who want to add Huntron Access Prober automation to their test procedures. Huntron Workstation runs in the background while your application sends calls that command Workstation functions such as component or test point selection, probe placement and image capture.

Remote Control is used by programs linked to the Huntron Client VB.NET DLL. The DLL provides call functions used to control the Huntron Workstation application.

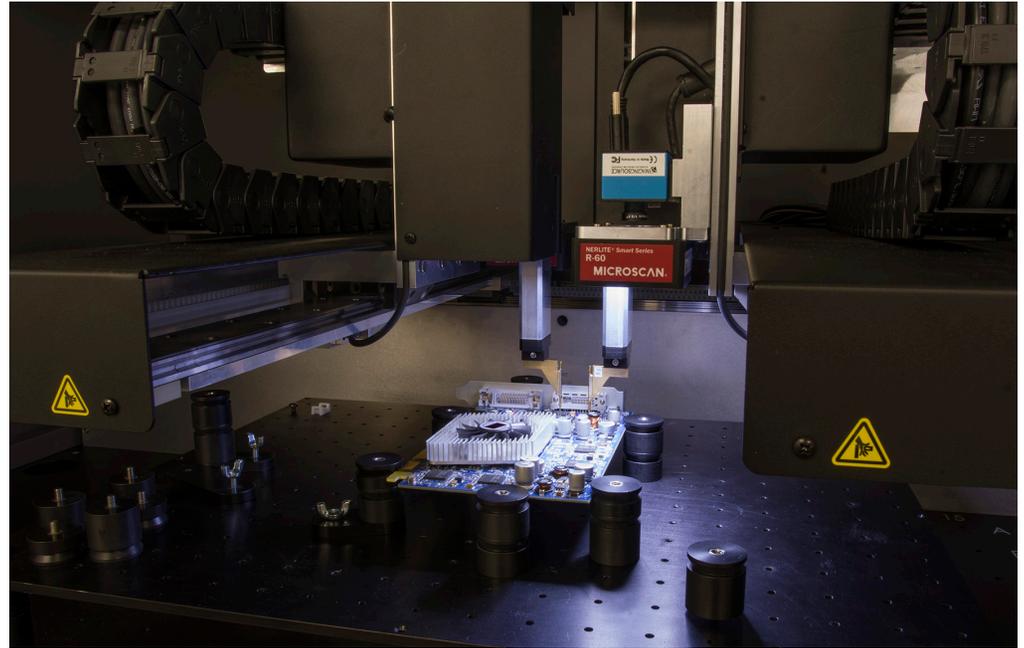
A typical situation involves using an Access Prober to automate a specific test such as a DMM voltage measurement. The measurement points on the PCA under test are input into Huntron Workstation and their locations taught using the Prober cameras. The customer creates a User Interface application that acts as a test executive for controlling their DMM, managing the power/stimulus to the PCA under test and sending commands to Huntron Workstation via Remote Control. The advantage is that they can use existing test instrument software for capturing measurements and let Huntron Workstation control the placement of the test probe. The test executive application acts as a bridge between their test instrument software, the power and stimulus hardware and the prober automation.

Features of the Huntron Access DH2

- Precision probe placement for accurate point to point measurements
- Solid construction for years of dependable, automated testing
- Top quality system components are used for best performance
- Remote Control software module provides you the option to customize control of measurement capture
- One year parts and labor warranty
- Experienced Technical Support provided to help make your test process successful
- Internal Huntron Tracker included
- System controller included (contact Huntron for current configuration)

Training and Support

Huntron provides extensive training and support for the Access DH2 system. Our experienced technical support staff can provide hands-on training and advice that will help you get the most from your Access DH2 Prober system. After-sale support is important to Huntron and we strive to provide some of the best technical support in the industry. Whether it is general user questions or resolving a system issue, Huntron stands behind our products with one year parts and labor warranties, knowledgeable customer service and fast technical support.



The Access DH2 is designed for flexibility when positioning circuit cards in the probing area for test. Use the supplied mounting hardware or build your own support system.

Access DH2 Specifications

Maximum Board Size: 27" x 23" (68.6cm x 58cm)

Maximum Probing Area: 19" x 12" (48.3cm x 30.5cm)

Max. Component Height 4.8" (12.2cm)

Drive system: XYZ stages using stepper motors on stainless steel linear rails;
Linear encoders for position feedback and correction

Standard spring probes in two sizes (shaft diameter): 0.038" (.97mm) and 0.021" (0.53mm)

Camera system: High resolution, auto-focus CCD cameras; software controlled ringlights

Line Voltage: 100VAC/115VAC/220VAC 50-60Hz.

Accuracy: 0.0003937" (± 10 microns)

Resolution: 0.00002" (0.4 microns)

Speed: Approximately 40 points per minute @ 1 measurement/point

Dimensions: 47" W x 61.5" H x 35.75" D (w/handle) (119.4cm W x 156.2cm H x 90.8cm D)

Cabinet Internal Dimensions: 45" W x 29" H x 33" D (114.3cm W x 73.6cm H x 83.8cm D)
Dual 19" (48.3cm) equipment racks

Weight: 632 lbs. (286.7 Kg.)

Safety: ETL and CE certified

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