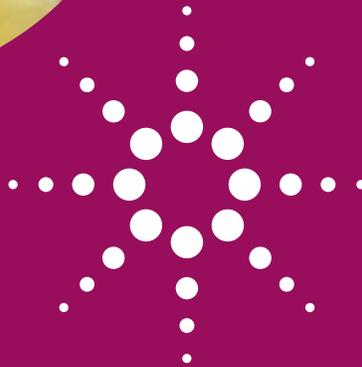




Faster Development.
Faster Execution.
Results Sooner.



Agilent Medalist x6000 Automated 3D X-ray Inspection System
Overcome the Barriers to Successful X-ray Implementations



Agilent Technologies



Uncompromised test coverage

Today, manufacturers of printed circuit board assemblies (PCBAs) use test and inspection equipment for two key reasons: **defect coverage** and **process control**. Customers demand quality products. Consequently, manufacturers must build quality products. This means using the best available tools and processes. However, no process is 100% perfect. This means cost effective defect detection and repair. Agilent's 3D X-ray has proven to be the most effective tool at finding manufacturing defects on printed circuit board assemblies (PCBAs).

Throughput to match your inspection needs

The *Medalist x6000* offers unmatched 3D inspection speed. Speed to:

- reduce capital investment
- match line rates
- provide uncompromised test coverage
- exploit the power of 3D inspection capability

The *Medalist x6000* applies that inspection capability to your entire PCBA. You are no longer required to trade off coverage because your inspection system is not fast enough. The *Medalist x6000* outperforms other alternatives. It is faster and more repeatable than manual X-ray. It provides greater coverage than

2D X-ray. It doesn't compromise the coverage in order to increase throughput. It inspects every joint using high performance 3D capability.

Programming made simple

The *Medalist x6000* provides a comprehensive programming experience. First, CAMCAD Professional quickly translates CAD data into formatted files that can be used on any Agilent system. From the *Medalist x6000* single programming environment, the user imports the CAD data. The system matches the package to the right algorithm for inspection. Powerful, graphical tools enable the programmer to quickly check the CAD to ensure it matches the X-ray image. Graphical view of panels, boards and packages make it easy to ensure your program is right the first time. Using advanced learning techniques, the system automatically sets key measurement parameters. These features enable fast, accurate, high coverage results.

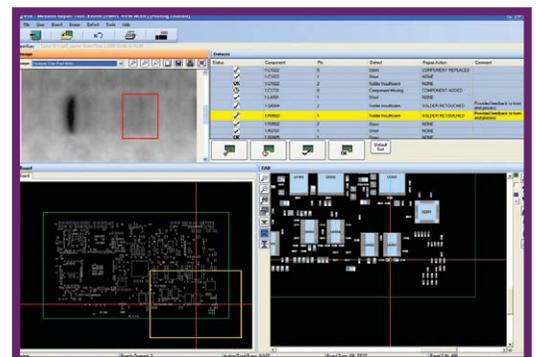
Total solution for production

In addition to unmatched performance, the *Medalist x6000* solution provides integrated repair and quality tools to get actionable information to your repair stations and to your process experts. It's a complete end-to-end toolset for real world production

environments. This enhances the value of test and inspection systems by making use of the results to quickly, efficiently, and effectively repair defective products, early in the process before costly electrical or functional test.

Medalist Repair Tool

The *Medalist Repair Tool* provides an easy-to-use, common graphical repair interface across the Agilent portfolio of test and inspection systems. With the *Medalist Repair Tool*, operators can repair boards more quickly and effectively. Operators work in a user configurable graphical environment that provides a clear view of test data, along with best-fit images of defective joints and corresponding CAD data. This enables them to quickly identify where and how repairs should be made. This means less repair work-in-process, lower repair overhead, and fewer downstream escapes.





Based upon a robust architecture, the *Medalist Repair Tool* offers multiple configurations to suit your strategy. With built-in export functionality, it can generate XML files and distribute them enterprise wide as test or repair actions occur on your Agilent products.

Medalist Quality Tool

This data analysis tool uses *Medalist x6000* test data to quickly identify process and quality issues on PCBAs. It provides real-time access to data from Agilent systems, allowing comprehensive, immediate information for process analysis, statistical process control, and test/repair effectiveness evaluations.

identification and lower false calls which result in a more efficient test and repair loop. Since the dashboard provides “live” views, alarms can be setup for real-time process control.

From any dashboard or historical chart, data can be broken down to actionable items. With just a mouse click, intelligent drill-downs give you an analysis of your data for incredible speed to actionable information.

The *Medalist Quality Tool* offers easy access to data within the test and repair loops. The spreadsheet export tool allows you to filter and export data to any spreadsheet application for data analysis, or connect to MES and other data gathering tools.

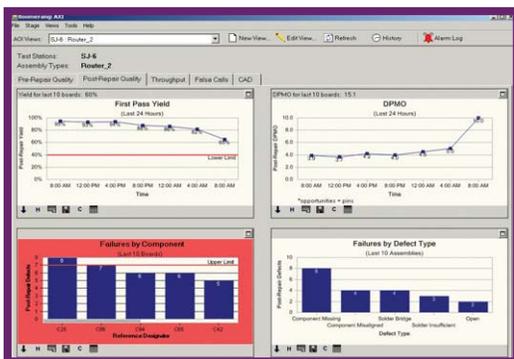
They can help you optimize programs, streamline application development, train new operators, diagnose problems, and avoid downtime with preventive maintenance and occasional upgrades. Agilent experts can be part of your team whenever and wherever you need them.

Technical consulting

Specialized consulting services bring hands-on expertise into your organization whenever you need it. Agilent consultants are available to help you plan system installation, install and debug programs, ensure that programs are running correctly, make sure repair cells are set up properly, provide image interpretation training, and much more. You can even get help with post-implementation monitoring to tune the performance of your test and repair operations. This broad range of expertise can be brought directly to your factory or delivered through a broadband internet connection to the remote enabled *Medalist x6000*. Agilent will be there before, during and after the sale to make sure your Agilent system gets into production and delivers the results that you need.

Worldwide professional services

Agilent has a deep talent pool of engineers, programmers, consultants, technicians, trainers and more who are available to work for you anywhere, anytime. Agilent resources can fill the manpower gap created by peaks and valleys on the production line, so you always have access to technical resources that help you get a higher return on your test system investment.



Custom views, or dashboards, allow you to get real-time access to pre- and post repair quality information, test and repair throughput, work-in-process information, and historical quality information. This provides

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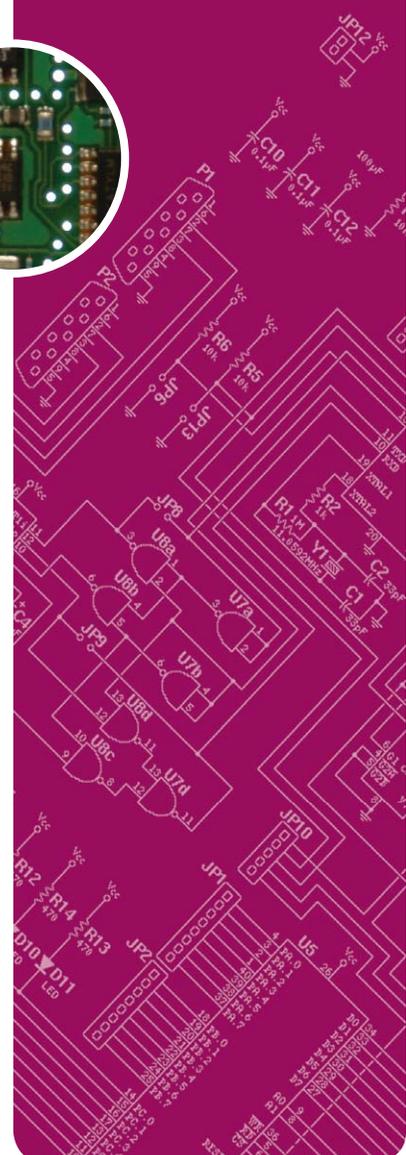
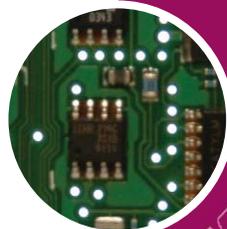
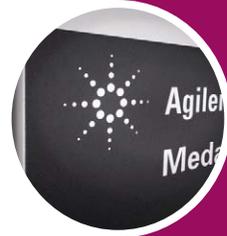
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