



FAIL VISUALIZER UA1782 Series

Automatic Testing
Equipment



Visualize information about board defects with a single click.

Robust support for repair work through simple operation and assistive functionality
Use the UA1782 as a tool to support repair and analysis work conducted away from testing equipment.

Dedicated visualization software for Hioki electrical testing equipment and data creation systems

- Visualize test results from flying-probe testers
- Pinpoint components and patterns from test result files
- Display the probing positions of test fixtures or test heads for both ICT and bare board testers
- Search for components and nets on device embedded substrates



HIOKI company overview, new products, environmental considerations and other information are available on our website.

Quickly find the locations of failed components

Get started quickly with real-time file loading

Flying-probe tester

Files displayed along with a FAIL-MAP you can...

See all defects

FAIL



Choose to view

Test	Step Name	Result	Test Point
<input type="checkbox"/>	Compon IC101 94-94	LOW	223,224
<input checked="" type="checkbox"/>	Compon IC101 26-26	LOW	87,88
<input type="checkbox"/>	Compon R108 1-2	LOW	299,300
<input type="checkbox"/>	Compon R117 1-2	HIGH	301,302
<input checked="" type="checkbox"/>	Compon C109 1-2	LOW	17,18
<input type="checkbox"/>	Compon Q106 3-2-1	HIGH	

Automatic FAIL-MAP generation

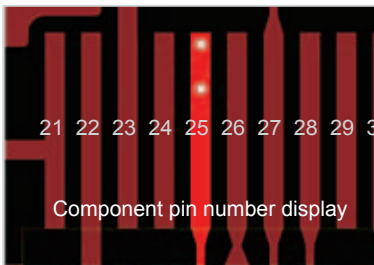
Pinpoint view of the selected component

Fail files can be either loaded automatically or specified using barcodes. When a file is loaded, the FAIL-MAP is updated, and all fail locations are displayed.

Only the selected entry in the fail list is displayed, and its checkbox will be selected once you have finished reviewing that point.

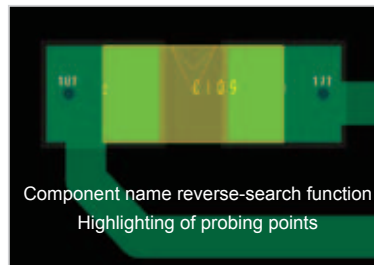
Since you can select only the information you wish to view, you can...

View pin numbers



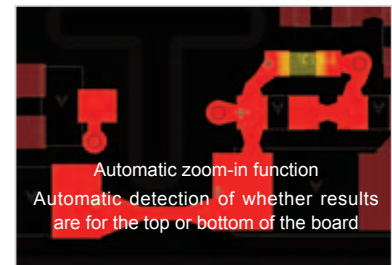
Simultaneous display of pin numbers allows easy identification of the location of pseudo-contact defects.

View probing positions



If all mounting information has been registered, you can search for locations by component name.

View the opposite side



The software automatically determines whether the loaded data describes the top or bottom of the board.

Only the FIT-LINE UA1780 database is required.

To prepare to use the visualizer, you need only import the database and specify the location of test result files on your network. There's no need to bring hard copies of the BOM, component layouts, or pin maps to the worksite.

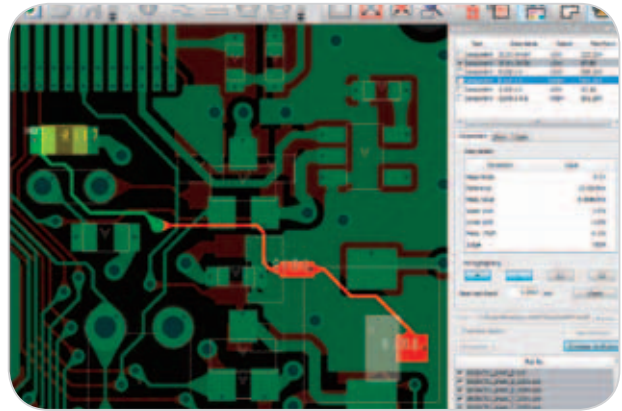


Assistive functionality aids in repair work

“I can’t find the location of the defect on the pinpoint view!”

Net search view

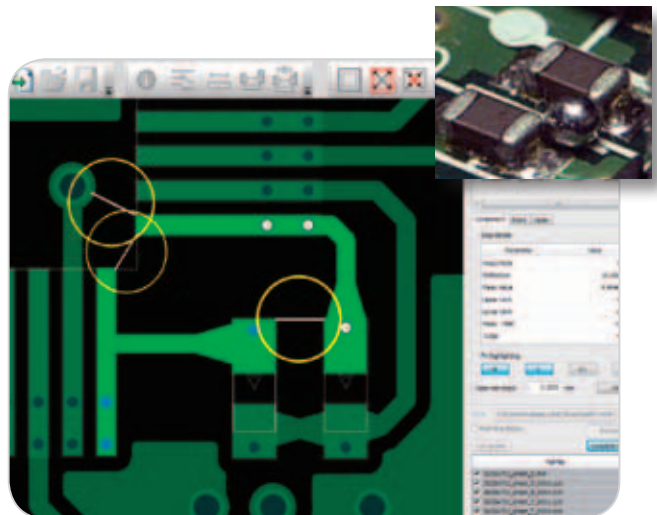
The visualizer automatically creates a list of components that are connected to the same pattern as a defective component, and it also highlights pattern wiring in all layers and mounted components for each point with which the test probes make contact. You can also easily check components mounted on the opposite surface of the board and components such as bypass capacitors that are connected in parallel.



“There’s a short defect here somewhere, but I can’t seem to find it...”

Proximity check view

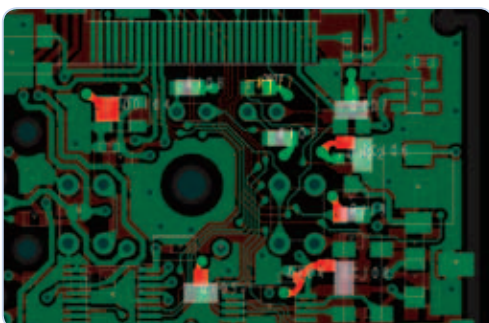
The visualizer displays checkmarks at solder bridge risk points other than component pins that are physically close, for example between adjacent components or nearby through-holes after flow soldering. Choose the mode that best fits your objective: populated board search mode, which searches only between surface-layer pads and through-holes, and bare board search mode, which checks near distances between user-specified patterns, including inner layers.



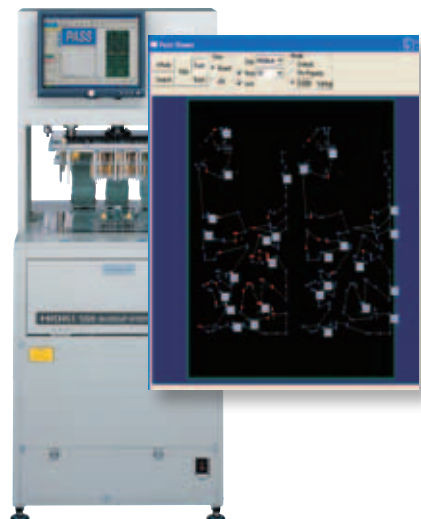
“Where are test fixture pins indicating fail results contacting the board?”

Point information view

The visualizer can load Model 1160 test fixture point information files. Since you can identify probe positions and easily check which component is being tested by a specified probe even if you don’t have access to the 1220’s point viewer function, the visualizer can also be used in test fixture maintenance.



Model 1220’s point viewer function screen



Extensive analysis functionality for bare board testing

The UA1782 also provides dedicated functionality to aid in bare board repair work, enabling it to provide robust backup for users of bare board testers.

- Highlighting of nets in all layers Importing of FLY-LINE databases and net searches for all layers
- Display of device embedded substrates Importing of EPA-LINE databases and display of embedded devices in inner layers
- Capacitance S/O checking Searching for defective nets and points based on measured capacitance values
- Address searching Importing of CAN data for analysis and net searches using address numbers



FAIL VISUALIZER UA1782 Specifications

Product variants	Contents
UA1782 Supports UA1780 database input	Install CD, license key (USB), instruction manual *Note: User is responsible for providing a computer, monitor, and other hardware.
UA1782-01 Supports IPC-D-356 format input	
UA1782-02 Supports CAN & ADR formats input	

Function details	
Database import	Load UA1780 and U-ART databases.
Net highlighting	Display user-specified nets with color highlighting. The user can select whether to display all layers or only top and bottom layers.
Fail list loading with real-time monitoring	Monitor a test result output folder for a testing system at a specified interval and automatically load new test data as it becomes available.
Pattern proximity check view	Generate checkmarks at points lying at or below a user-specified distance between two nets for all layers.
Pad proximity check view	Generate checkmarks at points lying close to locations at which a conductor is exposed (i.e., areas without resist), limited to the surface layer.
Net component connection display (net search view)	Display components that are connected to the specified net.
Point information search	Load a point information file from a 1220 in-circuit tester and search for components by populated board fixture pin number.
Address search	Load CAN data and ADR-format files for use in analyzing bare board test fixtures and search by address number.
Display of device embedded substrates	Import EPA-LINE databases and display defective embedded devices on inner layers.
Capacitance short/open check	Search for test points near wiring breaks and short-circuited nets based on capacitance values from bare board test results.
Barcode file loading	Search for fail files by barcode and load them.
Work check history	Add a check history to test steps and test files that have been checked.

Recommended operating environment	
Supported operating system	Windows 7 Professional 64-bit
CPU	Core i7 or equivalent
RAM	4 GB or more
Display resolution	1920 × 1080 or greater
Available disk space	80 GB or more

Functionality by testing system

	FA1240 *1	1116,127x	FA1282	FA1232	1220	Bare board test fixture
Fail list loading with real-time monitoring	✓	✓	✓	✓	✓ *2	N/A
Pattern proximity check view	✓	✓	✓	✓	✓	✓
Pad proximity check view	✓	N/A	N/A	N/A	N/A	N/A
Net component connection display (net search view)	✓	✓	✓	✓	✓	✓
Point information search	N/A	N/A	N/A	N/A	✓	N/A
Address search	N/A	N/A	N/A	N/A	N/A	✓
Display of device embedded substrates	✓	✓	✓	✓	N/A	✓
Capacitance short/open check	N/A	✓	✓	N/A	N/A	N/A
Barcode file loading	✓	✓	✓	✓	✓ *2	N/A
Work check history	✓	✓	✓	✓	N/A	N/A

*1 Customers using the 1240 will need to upgrade their system to the FA1240 before using this product.
*2 Please contact your distributor for more information about using list loading functionality with the 1220.

Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.



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