Ucamco
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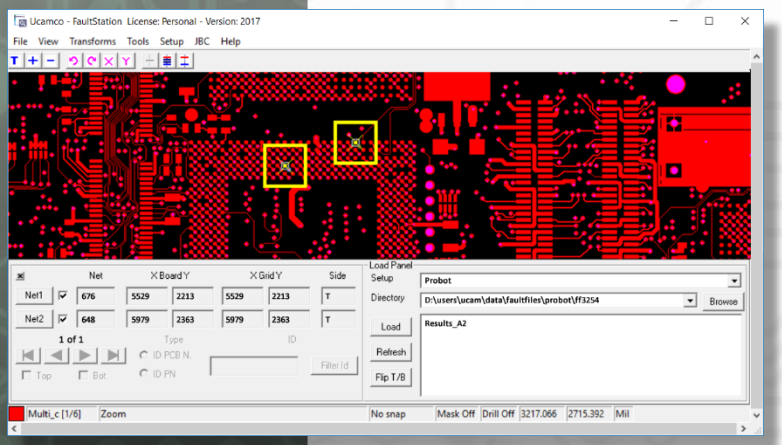
SOFTWARE | LASER PHOTO PLOTTERS | DIRECT IMAGERS

FaultStation

Defect review station for Electrical Test



- Intuitive and easy-to-operate user interface
- Error input from all test equipment
- IPC input to link to any data prep
- Barcode reader facilities
- Auto-clearance and affected layers scans
- Free Client Edition for value-added service to your end-customer

MARKETS

Rigid PCB Mfr ✓
Flex PCB Mfr ✓
Flex-Rigid PCB Mfr ✓
HDI PCB Mfr ✓
PCB Masslam Mfr
PCB Equipment Mfr
PCB Traders
PCB Designers
PCB Test Centers ✓
IC Packaging
Chemical Milling
High Resolution Graphic Arts
Flat Panel Display

PRODUCT FAMILIES

CAM
PreCAM and Engineering
Electrical Test ✓
Equipment Front Ends
Format Converters & RIP's
OEM Software

Laser Photo Plotters
Direct Imagers

64 Bit

Discover the difference !

When time is of the essence, a fuss is the last thing you need. Each time the red light on your tester flashes to tell about a problem on the board, Quality Control are faced with a fundamental question: how do they know for sure that the board has indeed a defect. And equally important, how do they pinpoint it in the shortest possible time.

That is the time when your quality engineer needs a solid and robust tool to help him locate the potential problem on the troublesome board. A piece of software he can rely on to put the circuit under scrutiny on his computer screen in a matter of seconds, and guide him through the most likely error locations in an intuitive and uncomplicated manner. A companion that will help him make a correct assessment of the situation on the board time after time.

That is exactly what Ucamco's **FAULTSTATION** will do. Built for 32bit and 64bit Windows operating systems, it features DPF, IPC, MET, MWF and more… input to link to any data-prep system upstream. With its multitude of different error file inputs, you are capable of doing defect review for your entire electrical test shopfloor from one single application, no matter how many different makes and models of test equipment you run.

Easy-to-operate User Interface

The clever design of **FAULTSTATION**'s new interface optimizes every gesture of the person at the controls. Feedback from users shows an increase in throughput of up to 10% on highly complex boards. Whether the operator wants to drive the program from keyboard shortcuts or from a mouse, he finds the functionality he looks for in the place he expects.

The central Load Panel gives access to testers and error data. After confirming his selection, the user lets the program take control: the position and side information in the error files automatically scan, flip and rezoom the data on screen and put the operator right on the spot. Faulty nets are highlighted in different colors to make them stand out from all the rest. And the portions of the nets on other layers are displayed in cross-hatch mode.

Locating a short on the board can be very fastidious. The task is hard enough already considering just the outer layers, and if inner layer review is required for Statistical Process Control (SPC), it can become a real nightmare. Nothing is simplier on **FAULTSTATION** though, with the program's auto-clearance scan feature. For every short it encouters, the software zips through the copper layers and graphically flags those where the two nets appear within a specified distance from each other.

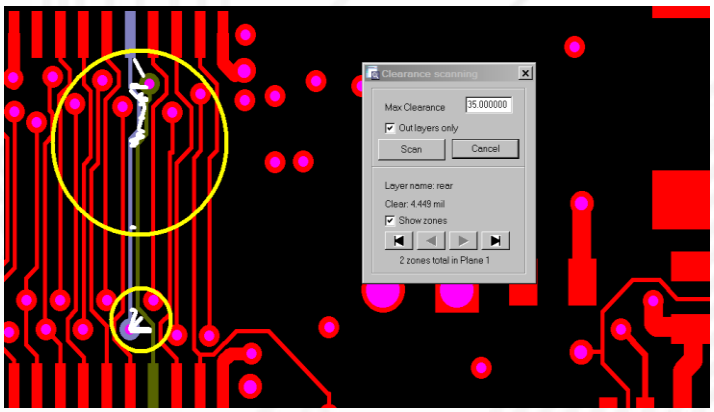
Direct link to FaultStation Web page

SOFTWARE

AutoCAM
FaultStation ✓
FixGenius
FlashRip
Format Converters
Geometric Correction System
Integr8tor
Multi Job Panelizer
OEM Software
SmartAOI
SmartPlate
SmartTest
Ucam CAD Review
Ucam CAM++
Ucam Chemical Milling
Ucam ET+
Ucam SmartView
Ucam uFlex
UcamX

For more information on any of our products or services please contact us:
By e-mail: info@ucamco.com

Obviously these are the locations to suspect first. A dedicated keyboard shortcut then puts you right on the spot, no matter how many layers the board contains.
Operating a program has never been simplier, with a very short learning period as a result.



Adjacency-based short detection

Error input from all test equipment

Centralize all error review for your different testers in a single seat! To capture PCB layout information, **FAULTSTATION** offers the choice of DPF or IPC input. In combination with a Ucamco data-prep seat, DPF is the obvious choice, while industry standard IPC provides a doorway to all other data-prep systems in today's marketplace.

Once the layout data is available, you combine it with the error information from a variety of different models and makes of testers. **FAULTSTATION** offers support for a wide range of testers:

- CircuitLine
- Probot
- Speedy
- ATG Flying Probe Testers
- ATG Grid
- MicroCraft Emma Testers
- Luther&Maelzer
- Viking
- Seica Flying Probe Testers

Evidently, **FAULTSTATION** also has a manual input of net, grid and board coordinates. This makes it compatible with virtually all earlier-model testers around and probably one of the most

Barcode Reader Facilities

Recent-model Mania test equipment – flying probe or bed-of-nails – can output error data barcodes. Using the barcode reader, **FAULTSTATION** automatically retrieves the error data for the board under review.

A real time-saver, particularly when a single batch of boards has been tested on different machines and the error data is scattered accordingly. Not to mention the added security of always reviewing a board with the right error data.
This feature becomes even more interesting in a so-called TFI (Test Floor Integration) environment: a bed-of-nails tester performs the initial test of a larger batch of PCBs.

The reported errors are first relayed to a flying probe tester, which will either confirm or dismiss the initial calls. After filtering the false calls from the true ones, the flying probe tester issues barcodes only for the remaining real errors. They will be the only ones that will be retrieved and reviewed on **FAULTSTATION**.

Easy end-customer communication

Sometimes data queries are just too hard to describe by E-mail, telephone or fax. On those occassions, your end-customer would give anything to be able to see what you see on your computer screen.

FAULTSTATION Client is an application you can freely distribute amongst your end-customers and which provides them with full data review and query possibilities. If you want, you can even let them review the tester error logs from their own batch of boards! All you have to do is extract an encrypted JBC file from your master station, lock it with the customer's dedicated certificate and put it in an E-mail. Your end-customer's client software recognizes the certificate and unlocks the data for reviewing.

Installation Requirements

FAULTSTATION is available in 32bit and 64bit versions. To find out the software installation requirements for any ucamco software package please download our Software Installation requirements guide from the Downloads page of Ucamco's website.

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