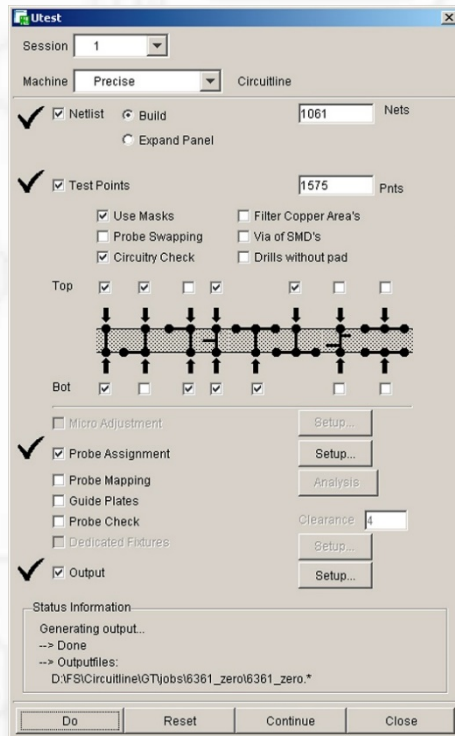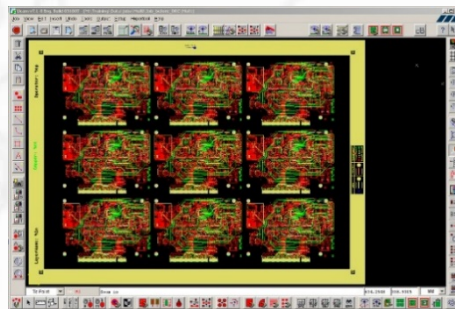# Ucamco
Former Barco ETS

SOFTWARE	LASER PHOTO PLOTTERS	DIRECT IMAGERS

UcamX - SmartTest

The Clever Way of Integrating your Electrical Test Systems

Bed-of-nails, Flying Probe or combined electrical test

Fault-finding & Verification Test floor Integration Board retest

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

Multi Core

Productive data-preparation station

SmartTest is a highly productive data-preparation station for feeding your electrical test department with tailor-made and error-free programs. Its outputs drive a host of electrical test equipment, ranging from bed-of-nail fixture testers, over flying probe units to fault-finding and verification stations.

Support for all popular Input Formats

SmartTest supports the full range of image, drill and netlist input formats currently around in the industry. Thanks to the embedded field-proven UcamX technology, complex build-ups with any number of blind and buried drill layers or highly complex copper layers with countless paint-and-scratch levels are handled with ease. A vast library of editing functions allows the operator to touch up any inconsistencies in the incoming customer data in secure way prior to netlist and testpoint generation.

Detection of net inconsistencies

The netlist generation algorithms are fast and accurate and process jobs of any complexity flawlessly. Sophisticated netlist compare routines detect any inconsistency or deviation from a golden reference netlist. The result is a 100% netlist security and the highest possible operator productivity.

Best testpoint generation algorithms

SmartTest features best-in-class testpoint generation algorithms, based on IPC guidelines. They automatically handle loops and odd-shaped pads and support 2-3-4 point and z-axis auto-staggering. The result is a safe and optimal test set, yielding the highest test speeds for the chosen test strategy and maximum operator throughput.

Guided workflow assistance

SmartTest's highly optimized adjacency algorithms, including Z-adjacency, help create high-grade test programs for effortless and secure testing. They reduce test times on flying probe test equipment dramatically. Workflow assistance guides the novice operator through the data preparation process. A shortened learning curve, fewer operator mistakes and an improved comfort and ease of use are the unmistakable and immediate benefits of this unique SmartTest feature.

Field-Proven and Reliable

SmartTest outputs are designed to boost productivity, security and speed. They also provide the cornerstone for TFISpy, Ucamco's Test Floor Integration product that streamlines outputs from test systems of different make and model on your shop floor into a single data model for uncomplicated and consistent error review and partial retest.
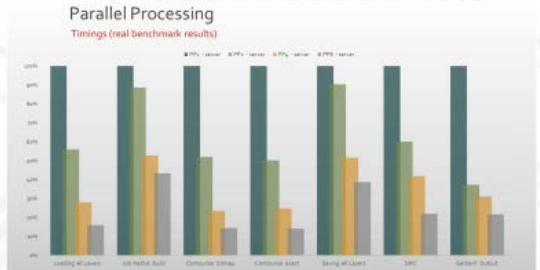
UcamX logo

Positioning within Ucamco products

UCAMX is Ucamco's latest generation of CAM software for the Rigid, Flex and HDI PCB manufacturing industries. It takes advantage of modern-day multicore and 64 bit workstation technology to set new standards in performance and throughput. It comes with a clever and highly intuitive new user interface that adapts itself functionality-wise as a job progresses through the CAM workflow

Parallel Processing

At the heart of UCAMX are its newly designed 64 bit core engine and a smart new feature called Parallel Processing (PP). They are the key to the software's astonishing performance. The 64 bit UCAMX core addresses more computer memory and allows high layer-count jobs or massive data volumes to process without a hitch. In the Parallel Processing concept, highly efficient new algorithms split up CPU-intensive CAM tasks between various CPUs of a multicore workstation and complete within a fraction of the time standard CAM software packages would need. The more CPUs on the workstation, the faster the software.
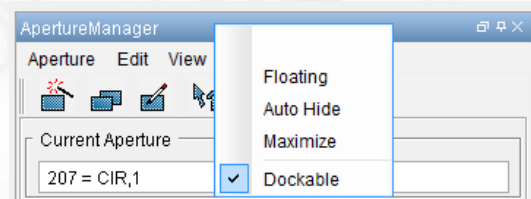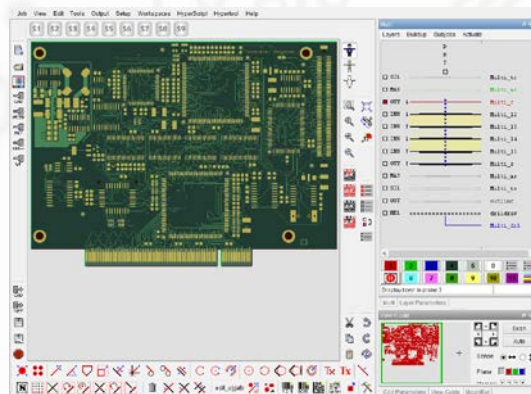

New Intuitive User Interface

UCAMX' most eye-catching novelty is undoubtedly its new graphical user interface. It excels at comfort, ease-of-use and convenience, and abounds with sparkling widgets and surprising can dos...

We call it Workspace GUI. It lets you layout, store and reload different configurations of dialogues and toolbars, depending on which stage of the CAM process a job has reached. As it enters into the next stage, you just call up the workspace to go with it and Workspace GUI does the rest: it re-arranges itself to bring all required functionality for the task at hand within easy reach: multiple rows of toolbars – side by side or stacked on top of each other, **HYPERTOOL** or **VISUAL HYPERSCRIPT** programs directly accessible from a toolbar icon, a slick "pin bar" where dialogues slide in to and out of, it is all there for you to discover and make the interaction with the program a real joy...

UCAMX comes with a set of pre-defined workspaces right out of the box so you can hit the ground running. And should something not be entirely the way your CAM department is used to going about things, all it takes is a couple of drag'n'drops to adapt an existing workspace to your exact needs or to create an entirely new one.

SOFTWARE

AutoCAM

FaultStation 4

FixGenius

FlashRip

Format Converters

Geometric Correction System

Integr8tor

Mult 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

Ucamco protects your Investments

Ucamco has a longstanding tradition of protecting its customers' investments. UCAMX is no exception:
it seamlessly hooks in to your existing UCAM installation and reuses all of the available software setups or precious automation that you have diligently gathered and carefully maintained over the years.