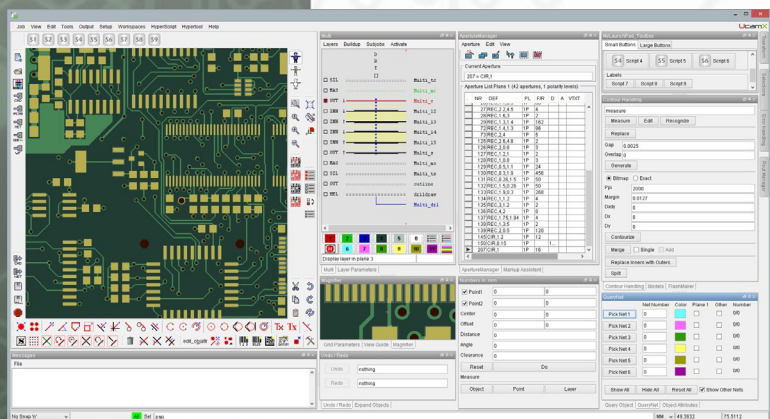# Ucamco

SOFTWARE | **LASER PHOTO PLOTTERS** | **DIRECT IMAGERS**

UcamX

New Ground Breaking CAM Software for Rigid, Flex and HDI PCB's

- Zero-defect tooling
- Out-of-the-box CAM productivity
- 100% integration into existing environment
- State-of-the-art intuitive user interface
- Wait times on complex algorithms slashed by up to 500% (8-core)
- Top-notch performance by using parallel processing on today's multicore processors
- High-level automation – without limits

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
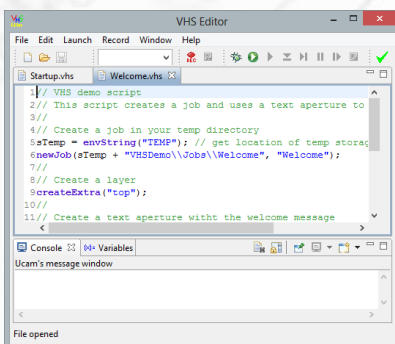Direct Imagers

64 Bit

Multi Core

Zero-Defect Tooling

UCAMX captures not just layout data but also netlist information, customer specifications, mechanical drawings and manufacturing rules in a single smart engineering database. From the database launch automatic DRC and DFM checks without vendor limitations. Optimize plant yields using automated DFM routines. UCAMX deploys powerful automatic security tools to detect accidental operator errors. **For** flexible circuitry see our UCAM uFLEX brochure.

Integration into any environment

We provide our customers with all interfaces, upstream to CAD/DFM, downstream to manufacturing and quality control. UCAMX outputs fully-automated machine-optimized tooling for all industry-standard electrical testers and AOI systems, photo plotters, drilling and routing equipment and direct imagers. Product parameters can easily be uploaded into corporate production management databases, or in various formats for other CAD/CAM systems.

Out-of-the-Box CAM Productivity

UCAMX is delivered ready-automated with built-in dynamic functionality for a fast roll-out and a fully customized smart workflow. Labor-saving functions include automated board structuring, netlist and test-point generation without manual intervention, & dynamic yield-driven auto-panelization. Working on one job and need to look at others? No need to close down: just use Load Balanced Sessions to open as many extra jobs as you need on your workstation.

High-level automation without limits

UCAMX HYPERTOOL scripting delivers in-depth custom automation without limits. Unlike batch-sequencers, HyperTools give you access to full core CAM functionality. Simplify and accelerate your process automation. Write new CAM routines to automate your new technologies or to integrate CAM deeply into your business systems. The Java™ carrier means that HyperTools are structured, robust and reliable, fully integrated into the UCAMX GUI.

UCAMX VISUAL HYPERSCRIPT (VHS) scripting delivers operator level automation without limits. Record repetitive tasks or write new CAM routines to automate your CAM flow or to integrate CAM deeply into your business systems. The VHS function library contains more than 1000 commands.

The VHS Editor (see picture) offers a complete programming and debugging environment to test created or recorded scripts. Scripts can be attached to custom toolbars and launch pads.
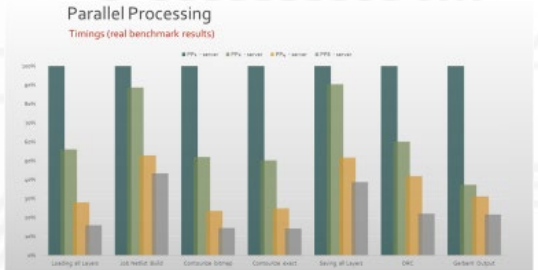
UcamX logo

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.
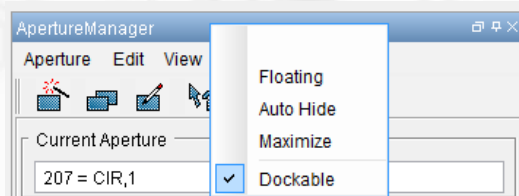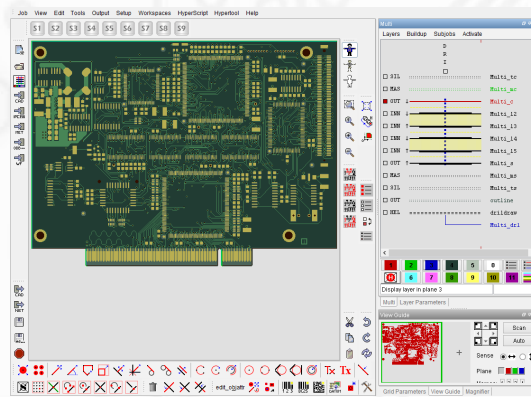

SOFTWARE

AutoCAM

FaultStation 4

FixGenius

FlashRip

Format Converters

Geometric Correction System

iamcam

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

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.

Ucamco protects your Investments

Ucamco has a longstanding tradition of protecting its customer's 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.