

SOFTWARE

LASER PHOTO PLOTTERS

DIRECT IMAGERS

UcamX

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

ib View Edit Tools Culput Selap Workspaces HyperScript Hypertool Help			Ucam
51 52 53 54 55 56 57 58 59	Laven Bulldus Subjete Advate	Aperture Edit View	Prod Buffred Large Buffred
	Ŷ	and and the and the	54 board 55 board 56 board *
	0 HL 0 HL 0 ↓ 0 HL 0 ↓ 0 HL 0 ↓ 0 HL 0 ↓ 0 HL 0	207 = C PL1 - Aperture List Plane 1 (42 apertures, 1 polastly levels)	Labels Borget 7 Borget 9
	ALL BALLO	. NR DEF PL FR O A VD/T	Contracting
	0 01 DE 1 DE 1 Balta_12	27 PEC 22,45 IP 4 ^	restare
	R	29/REC.1.3.1.4 1/P 162 72/FEC.3.4.1.3 1/P 96	Measure Edit Recognition
	R D DH 1 Batta 15	73/06C.2.4 10 6 125/06C.2.6.4.8 10 2 126/06C.2.0.8 10 3	040 1.025
	D BR 1 Balting	127 PBC 1.2,1 1/P 2	Overag g
	0 251	126REC.0.5.1.1 1/P 24 126REC.0.2.1.9 1/P 456	Osterale
		131 PEC.0.28.1.5 1P 50 122 PEC 1.5.0.36 1P 50	Bitmap O Exet
	11 Ox	133/REC.1.9.0.3 1/P 268 134/REC.1.1.2 1/P 4	Margin 0.0127
▆▋▓▇▝▀▝▖▁▕▌▖▖▖▖▖▖▖▖▖	iii ·· Balen_del	126/REC.21.2 19 2 136/REC.4.2 19 0 135/REC.4.2 19 4	Dedy 0
		128/REC.1.3.5 1/P 2	Dy 0
	X X X X X X X X X X X X X X X X X X X	130/PEC.20.5 1P 120 1455CR.1.2 1P 12 150CR.0.15 1P 1.	Cantaulte
	(O) 🔹 🗷 🔳 🔹 📰 🚍	■ 2007 C PL3 11P 16 V	Marga Birgle Ass
──、'═_≧╣▰∎∽╼═║╙╙╹╹ヾ═╝╱╢`≣	Displayer in plane 2 Huld Lawer Parameters	Aperbandianoper Maring Assistent	Replace Inners with Outers
▖▖▖▙▆▁▋▋▋▋▋▀▖▀▋▖▖▎▌▔▁ヽ▁▋▀▁╱▁▖▊	Magneter (200	K Nameand is non die	Spat .
		@Paid 0 0	Control Handling Models (Hashillaker)
		Point2 0 0	NetNander Color Plane1 Other Nander
		Center 0 0	PANNAT 0 08
		Distance o	Pachatz 0 00
○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○	Grid Parameters View Guide Magnifier	Angle 0	Pastas4 0 00
iges	are: Unit: Hedo are	Clearance 0 Reset Do	Pastads 0 08
	a Uso salting	Model Do Mexamin	Pakhads 0 00
	Teda erbirg	Otiest Point Lawr	Shaw All Hide All Reset All Z Show Other Nets

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



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.

🖹 Startup.vhs 📄 Welco	ome.vhs 🖾
1// VHS demo scri	pt
2// This script c	reates a job and uses a text aperture to
3//	
	in your temp directory
	g("TEMP"); // get location of temp storaç
	VHSDemo\\Jobs\\Welcome", "Welcome");
7//	
8// Create a lave	r
9createExtra("top"	");
10//	
10//	<pre>"); aperture witht the welcome message ></pre>
10// 11// Create a text	aperture witht the welcome message
10// 11// Create a text	aperture witht the welcome message
10// 11// Create a text	aperture witht the welcome message
10// 11// Create a text	aperture witht the welcome message
10// 11// Create a text	aperture witht the welcome message
10// 11// Create a text € © Console ⊠ № Variables Ucam's message window	aperture witht the welcome Message
10// 11// Create a text	aperture witht the welcome message

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

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.

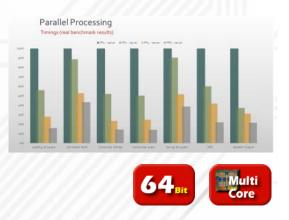
Positioning within Ucamco products



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

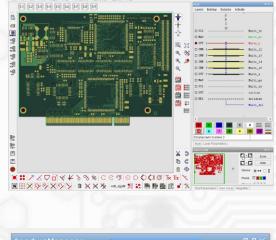
UCAMX' most eye-catching novelty is undoubtedly its new graphical user interface. It excels at comfort, ease-of-use and convenience, and abounds with sparkling widgets and surprising can dos...

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...

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.



ApertureManager			
Aperture Edit View		Floating Auto Hide	
Current Aperture		Maximize	
207 = CIR,1	~	Dockable	

Ucamco NV Bijenstraat 19, 9051 Gent, Belgium Tel: +32 9 216 99 00 - Fax: +32 9 216 99 12 E-mail: <u>info@ucamco.com</u>- Web: <u>www.ucamco.com</u>

©All rights reserved. Duplication in any form is prohibited. Content information may change without notice

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