

Product Flyer

SOFTWARE

LASER PHOTO PLOTTERS

DIRECT IMAGERS

Calibr8tor 5000 & 5200

A photo plotters family targeted at your precise requirements



- Makes glass master obsolete
- Resolutions up to 50,800 ppi
- Line widths down to 7 microns
- Unsurpassed accuracy
- Load up to 3 film magazines
- 100% automatic operation
- Highest plot speed in class
- Unrivalled uptime record

"Glass-master" image accuracy

The Dynamic beam control accurate to 0.1 micron and advanced pixel placement algorithms operating at 200,000 ppi deliver feature sizes accurate down to 1 μ m. Syntectic modulation eliminates the pixel-jump errors found on conventional plotters and allows the Calibr8tor 5000 to plot ultra-precise lines and spaces at all angles down to 7 μ m. These advanced imaging technologies are complemented by Calibr8tor 5000's patented internal film-handling system which eliminates all distortion of the film during plotting.

Lower whole-life costs

Calibr8tor 5000 has been designed to minimise imaging costs even at the highest resolution. Its compact footprint and data input in all standard plot formats make Calibr8tor 5000 a "wheel-in" replacement for any existing plotter. Automated direct drive from all industry-standard CAM systems and 3 film magazines each holding 150 sheets allow unattended operation, reducing labour and environmental costs. Calibr8tor 5000's robust wear-free construction based on more than 25 years design experience is fieldproven to deliver unrivalled uptime and operational life. Calibr8tor 5000 is backed by Ucamco's global support network and continuous development policy.

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 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

Covers all plotting needs from HDI PCBs to CSP substrates

The Calibr8tor 5000 delivers the highest plot speeds in class at resolutions from 8000 ppi to 50800 ppi to cover all your plotting needs from HDI PCBs to CSP substrates. New imaging technology gives unrivalled accuracy on features down to 7 microns. Calibr8tor 5000 includes Ucamco's new Geometric Correction System to increase production yields.

Highest plot speed in class

One of the key elements of the Calibr8tor 5000 is Ucamco's new scalable FlashRip making use of multi-core processing and RAID technology. FlashRip has been specially developed and optimized to process the massive data streams required for high-speed plotting of highresolution images. The result is up to 60% more plots per hour.

Increased production yields

The Calibr8tor 5000 includes as standard Ucamco's new Geometric Correction System (GCS). Compensate directly on the plotter for non-linear as well as linear process distortions detected during PCB production. Enter the distortion measurements into the plotter software and the film will be precisely compensated to an accuracy of 0.127 μ m.

Calibr8tor 5000 & 5200

8,000 up to 50,000 p	opi
3.125 up to 0.5 μm	
0.27 mil	7 μm
Model 5000	Model 5200
16.2	19.2
13.8	16.7
11.7	14.4
9.0	11.3
5.0	6.5
2.1	2.7
1.4	1.8
Imperial	Metrical
18" – 32" in ½" step	os 457 – 813 mm
24" – 29" in 1" steps	s 610 – 736 mm
0.2" (5 mm) less tha	in film format
0.9" (23 mm) less than film format	
± 0.02"	± 0.5 mm
Imperial	Metrical
< 0.16 mil	< 4 µm
< 0.08 mil	< 2 μm
0.01 mil	0.25 μm
< 0.4 mil	< 10 µm
< 0.4 mil	< 10 µm
< 0.04 mil	< 1 µm
0.005 mil	0.127 μm
± 5%	
Imperial	Metrical
Up to 3 magazines.	150 sheets of film in each
Red HeNe laser, 632.8 nm, 5 mW	
72.8" x 61" x 54.3"	1850 x 1550 x 1380 mr
3300 lbs	1500 kg
70° F ± 2°	21° C ± 1°
50% ± 2%, no conde	ensation
Max 6% per hour	
2 x 230 VAC, 2000 V	Ά
2,000 W (1,725 kcal	
	a
87 – 145 PSI	6 – 10 bar
87 – 145 PSI Free of oil and wate	
	3.125 up to 0.5 μm 0.27 mil Model 5000 16.2 13.8 11.7 9.0 5.0 2.1 1.4 Imperial 18" – 32" in χ " step 24" – 29" in 1" step 0.2" (5 mm) less that 0.9" (23 mm) less that 0.01 mil < 0.16 mil < 0.08 mil 0.01 mil < 0.04 mil < 0.04 mil < 0.04 mil < 0.04 mil 0.005 mil ± 5% Imperial Up to 3 magazines. Red HeNe laser, 632 72.8" x 61" x 54.3" 3300 lbs 70° F ± 2° 50% ± 2%, no conder Max 6% per hour 2 x 230 VAC, 2000 V







Linear motor



Granite & Air bearings

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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 at info@ucamco.com

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