Ucamco
Former Barco ETS

Product Flyer

SOFTWARE | LASER PHOTO PLOTTERS | DIRECT IMAGERS

SilverWriter 8800-8820-8850 P

- Resolutions up to 25,400 ppi
- Raising the Throughput Benchmark
- Reliable 24/7/52
- Unequalled Accuracy
- Compatibility & Upgradeability

Raising the Trhroughput Benchmark

The new SilverWriter 8000-P series introduces sophisticated new film-handling and operational sequencing to deliver up to **60% more films** per hour than Ucamco's previous market leader, the SilverWriter 800. **15 times faster** data processing handles the most complex PCB files without rasterizing delays. For maximum flexibility and cost control all machines can take **3 independent magazines** holding a total of **450 sheets** of film of 3 different sizes. New drive technology delivers unrivalled **uptime** and long-term reliability plus a 30% **smaller foot-print** for easier installation.

Reliable 24/7/52

The SilverWriter 8000-P is engineered for round the clock, **long-term reliability**. The ultra-stable granite bed, maintenance-free linear motor, air-bearings and the new direct-drive drum deliver unparalleled long-term uptime - your guarantee of on-time deliveries, low whole life costs and an optimum return on your investment.

Unequalled Accuracy

With its unique optical system the SilverWriter 8000-P will plot the tightest toleranced designs with pin-sharp quality. 16 plot resolutions up to **25,400 ppi** (1µm) deliver the optimum setting for every image down to **12.7µm** features. Two unique imaging functions, syntectic modulation and **sub-micron** pixel-placement, eliminate the rounding errors found on conventional plots and hold line-width accuracy below 2µm. Dynamic beam positioning and the patented stress-free film loader ensure an unrivalled **geometric accuracy** on every plot for perfect side-to-side registration.

Compatibility & Upgradeability

The SilverWriter 8000-P accepts plot instructions directly in Gerber, DPF, Genesis, OI5000 (Expert) or MDA formats, making it a "wheel-in" replacement for conventional plotters. **Choose** from standard, double or quad speed, up to 16 resolutions (metric and imperial) per machine, & 1 - 3 film magazines. With a well-proven **upgrade path** we can set up a SilverWriter 8000-P to your precise requirements now and in the future.

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

Get more out of your photo plotter investment with GCS software

Ucamco's Geometric Correction System (GCS) automatically modifies phototools to compensate for the non-linear and linear distortions introduced into a panel during the manufacturing process. By improving layer registration, GCS delivers increased factory yields and extends the plant capabilities with confidence into higher levels of PCB technology.

For more info please contact your local Ucamco distributor or mail us at info@ucamco.com.

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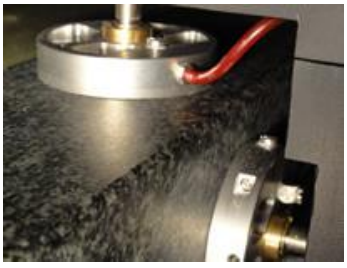
Technical Data

Resolutions	Imperial		Metrical
Imperial	4,000 up to 25,000 ppi + 2000 ppi draft quality		
Metric	6.25 µm up to 1 µm + 12.7 µm draft quality		
Min. line width	0.5 mil		12.7 µm
Productivity for an 18" x 24" plot (*)	**8800-P**	**8820-P**	**8850-P**
2000 ppi (in films / hour)	12.4	19.8	28.0
4,000 ppi (in films / hour)	7.1	12.4	19.8
8,000 ppi (in films / hour)	2.9	7.1	12.4
16,000 ppi (in films / hour)	2.0	3.9	7.1
25,000 ppi (in films / hour)	0.9	1.8	3.6
Film Requirements	**Imperial**		**Metrical**
Film format along the drum	18" – 32" in ½" steps		457-813 mm
Film format around the drum	24-29 in 1" steps"		610-736 mm
Max. image format along the drum	0.2" (5 mm) less than film format		
Max. image format around the drum	0.9" (23 mm) less than film format		
Sheet tolerance	± 0.02"		± 0.5 mm
Accuracy	**Imperial**		**Metrical**
Geometric plotter accuracy	< 0.16 mil		< 4 µm
Geometric plotter repeatability	< 0.08 mil		< 2 µm
Global positioning accuracy	0.01 mil		0.25 µm
Geometric accuracy on film	< 0.5 mil		< 12.5 µm
Geometric repeatability on film	< 0.5 mil		< 12.5 µm
Line-width accuracy	< 0.08 mil		< 2 µm
Scaling adjustments	In steps of 0.2 µm		
Scaling adjustment range	± 5%		
Machine Characteristics	**Imperial**		**Metrical**
Loading capacity	Up to 3 magazines. 150 sheets of film in each		
Light source	Red HeNe laser, 632.8 nm, 5 mW		
Dimensions (W x D)	72.8" x 61"		1850 x 1550 mm
Height	54.3"		1380 mm
Weight	3300 lbs		1500 kg
Room temperature during operation	70° F ± 2°		21° C ± 1°
Relative humidity during operation	50% ± 2%, no condensation		
Relative humidity rate of change	Max 6% per hour		
Electrical Power Supply	2 x 230 VAC, 2,000 VA		
Heat dissipation	2,000 W (1,725 kcal/h)		
Compressed air supply	87 – 145 PSI		6 –10 bar
Compressed air quality	Free of oil and water		0.01 mg/m³
Compressed air volume	88 ft³/hour		2500 l/hour

(*) Assuming nominal plotting using factory settings

Linear scale

Linear motor



Air bearings

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

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