Ucamco
Former Barco ETS

Product Flyer

SOFTWARE | LASER PHOTO PLOTTERS | DIRECT IMAGERS

BG752000 & BG753000 & BG753500

Top Notch Medium-Resolution Large Format Plotters

- Resolutions up to 25,400 ppi
- Compatibility and choices
- Improved registration
- Utmost handling capabilities
- Unrivalled 24/7/52 reliability

Medium resolution

With a maximum of 25,400 ppi, the BG752000, BG753000 and BG753500 series deliver excellent line quality. Two unique imaging functions, syntectic modulation and sub-micron pixel-placement, eliminate the rounding errors found on conventional plots and hold line-width accuracy down to 2 µm.

Compatibility and choices

Both series accepts plot instructions directly in Ucam(X)'s DPF, ODB++, Gerber, OI5000 (Expert) or MDA formats, making it a "wheel-in" replacement for conventional plotters. With up to 16 plot resolutions they deliver the optimum setting for every image down to 12 µm features. The BG75200 handles from 1.3 to 7.4 films per hour. The BG73500 with its increased speed handles 2.5 to 9.4 films/hour.

Improved registration

The BG series use the patented technology of frequency variation for the "photographic" scaling of inner layers. This eliminates micro banding resulting from adding/dropping a pixel.

Utmost handling capabilities

The film loading/unloading system is fully automated and on-line connected to the film processor. The film handling mechanism is simple, reliable and very accurate providing stress-free film loading

Unrivalled 24/7/52 reliability

The BG series is engineered for round the clock, long-term reliability. The ultra-stable granite bed, maintenance-free linear motor, air-bearings and the 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.

Get more out of your photo plotter investment with FlashRip software

- FlashRip provides optimized ripping and plotting of line images in resolutions up to 50800 ppi.
- FlashRip features automatic counter-scaling of all designated features on the plotter without the need to go back to the CAM department.
- FlashRip automatically inserts plot stamps (e.g. plot date) into the plotted image.
- FlashRip supports Geometric Correction System (GCS).
  GCS allows the user to compensate on the photo tool for the linear and non-linear distortions generated on the PCB during various production steps.
  The result is a much improved layer registration, lower scrap and higher yields.
- FlashRip is scalable for multiple processors to convert several jobs simultaneously (optional).

Depending on plotter model and job complexity FlashRip increases throughput with up to 100% and more.
For more info please contact your local Ucamco distributor or mail us at info@ucamco.com.

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

BG752000 & BG753000 & BG753500

Technical Data

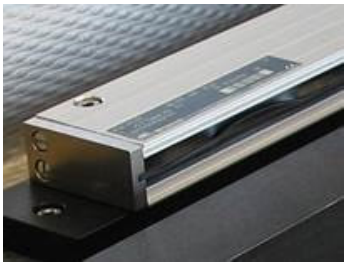
Resolutions			
Imperial	4,00 up to 25,400ppi		
Metric	6.25 µm up to 1 µm		
Min. line width	0.47 mil / 12 µm		
Productivity for an 46" x 62" panel	**752000**	**753000**	**753500**
4,000 ppi (in films / hour)	7.4	8.5	9.4
5,000 ppi (in films / hour)	6.4	7.4	8.3
8,000 ppi (in films / hour)	4.5	5.4	6.1
10,000 ppi (in films / hour)	3.8	4.5	5.2
16,000 ppi (in films / hour)	2.6	3.1	3.6
20,000 ppi (in films / hour)	1.9	2.4	3.0
25,000 ppi (in films / hour)	1.3	1.6	2.5

Film Requirements	Imperial	Metrical
Film format along the drum (*)	30" – 47.2" in ½" steps	762 – 1200 mm
Film format around the drum	63.5"	1612 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

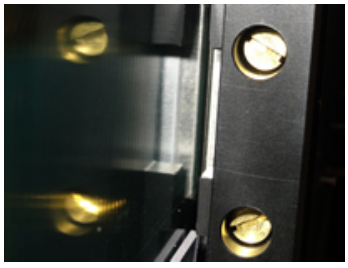
Accuracy	Imperial	Metrical
Geometric plotter accuracy	< 0.16 mil	< 4 µm
Geometric plotter repeatability	< 0.08 mil	< 2 µm
Global positioning accuracy	0.01 mil	0.25 µm
Geometric accuracy on film	< 1 mil	< 25.4 µm
Line-width accuracy down to	< 0.08 mil	< 2 µm
Scaling adjustments in steps of	0.0.005 mil	0.127 µm
Scaling adjustment range	± 5%	

Machine Characteristics	Imperial	Metrical
Loading capacity	25 sheets of film	
Light source	Red HeNe laser, 632.8 nm, 5 mW	
Dimensions (W x D)	100.4" x 64.2"	2550 x 1630 mm
Height	72.0"	1830 mm
Weight	4200 lbs	1900 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, 3,000 VA	
Heat dissipation	1,800 W (1,550 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	106 ft³/hour	3000 l/hour

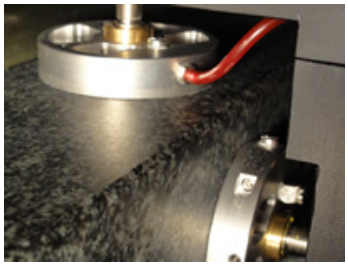
(*) We support max film format and one smaller



Linear scale



Linear motor



Air bearings

SOFTWARE

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