

System Comparison



Brand	POLOS	POLOS	POLOS
Model	MicroPrinter	NanoWriter	NanoWriter Advanced
PC with software	Included		
Resolution	2 µm to 23 µm	0.8 - 1.5 - 2.5 µm 5 µm option	0.3 - 0.6 - 0.9 µm 5 µm option
Max substrate size	100 x 100 mm		
Max exposed area	75 x 75 mm	110 x 110 mm	
Max layer thickness	120 µm	Few microns	
Light-Source Wavelength	435 nm	405 nm (375 nm option)	
Optional Light-Source Wavelength	N/A	375 nm	
Auto-Focus wavelength	525 nm	650 nm	
Grayscale levels	256	4095	
Light-Source Lifetime	3 900 hour lamps	> 20.000 hours	
Alignment	Topside/bsa		
Alignment resolution	1 µm	0.5 µm	
Writing speed	Prints the full substrate from few seconds to several minutes.	200 mm/s	
Writing speeds @ highest res.		4 mm ² /min	1.4 mm ² /min
Writing speeds @ lowest res.		35 mm ² /min	
File Format	BMP, GDSII, DXF	BMP, TIFF, GDSII, CIF, DXF	
Dimensions (W x D x H) in mm	360 x 360 x 600	580 x 600 x 708	600 x 600 x 750
Weight	40 kg	260 kg	
Facilities	Only electricity	Electricity & compressed air. Vacuum pump included.	
Room Temp. Regulation needs	Not needed	+/- 1 °C	
Warranty	1 year		
Warranty option	+2 years	1 year	

