



VarioLas Family

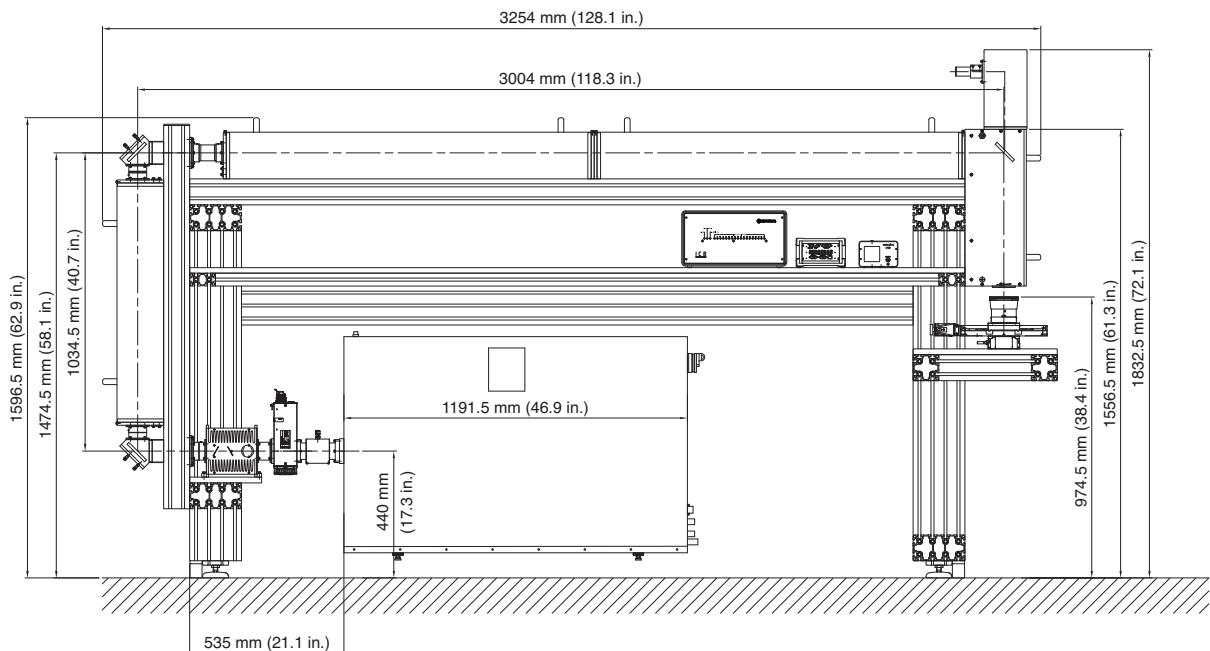
UV Material Processing Systems

Applications

- Laser Lift-Off (LLO)
- Processing ceramics, metals and polymers
- Making micro-reactors (lab-on-a-chip)
- Process development
- Flexible small volume production
- UV annealing and implant activation



Mechanical Specifications



Superior Reliability & Performance

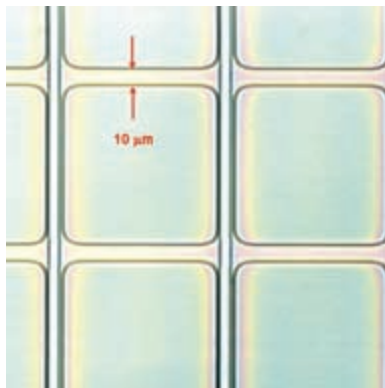
VarioLas™ Family

UV Material Processing Systems

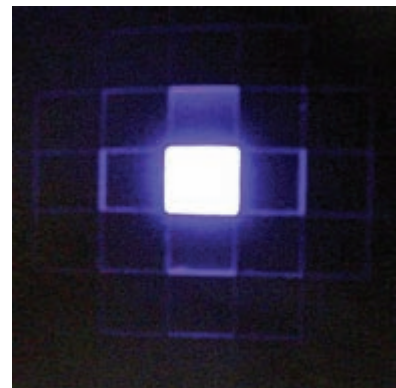
System Specifications

	Wavelength (nm)	VarioLas ECO	VarioLas PRO	VarioLas SWEEP
Field Geometry	All	Square	Square	Line
Mask Field Size (mm ²)	All	20 x 20	20 x 20	-
Substrate Field Size (mm ²)	All	2 x 2	2 x 2	50 x 0.6
Resolution (μm)	All	30	5	-
Working Distance (mm)	All	50	50	150
Maximum Repetition Rate (Hz)	All	20/100	20/100	20/100
Maximum Energy Density (mJ/cm ²)	193	1000	1000	230
	248	3500	3500	600
	308	3000	3000	500
Weight				
VarioLas beam delivery system	500 kg (1100 lbs.)			
COMPexPro Laser	250 kg (551 lbs.)			
Cooling	Air (up to 20 Hz)			
	Water, 2 to 3 l/min. (0.5 to 0.8 gal./min.), 15 to 20°C			
Electrical	230V, ±10%, 16A, 50/60 Hz switchable, 1-phase			
	115V, ±10%, 25A, 50/60 Hz switchable, 1-phase			
Dimensions (L x W x H)	3300 x 1200 x 1830 mm (131 x 48 x 73 in.)			
	(VarioLas beam delivery system incl. COMPexPro)			

Ablation in ITO at 248 nm



VarioLas PRO/ECO Mask Field



Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all VarioLas systems. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



www.Coherent.com

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