



UVblade

Laser Lift-Off Processing

UVblade gently detaches delicate polymer-based displays of all types from their rigid glass carriers. Laser Lift-Off separation is the enabling technology in manufacturing flexible displays. UVblade is available at line beam lengths supporting fast and effective separation of substrates and wafers.

FEATURES & BENEFITS

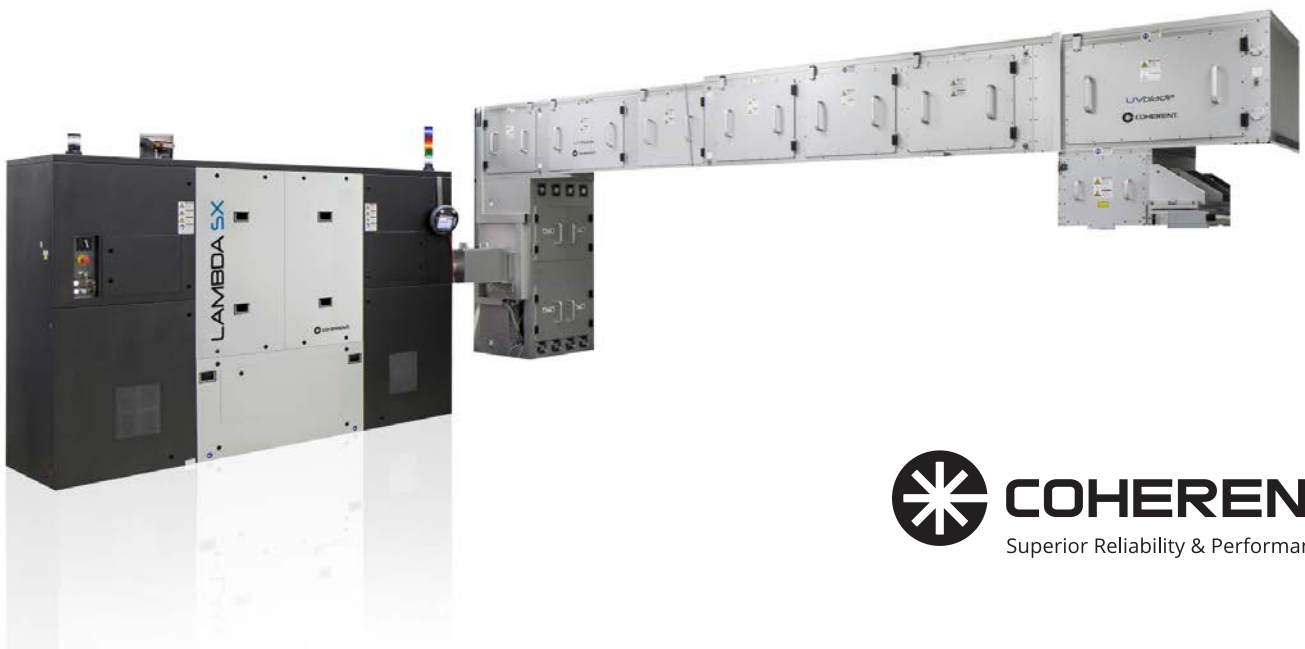
- Cost effective solutions for Laser Lift-Off (LLO) separation
- Pulse on Demand (POD)
- Unmatched beam utilization
- Scalability in line lengths and energy density

OPTIONS

- BeamScout Beam Profiler

APPLICATIONS

- Laser Lift-Off Separation

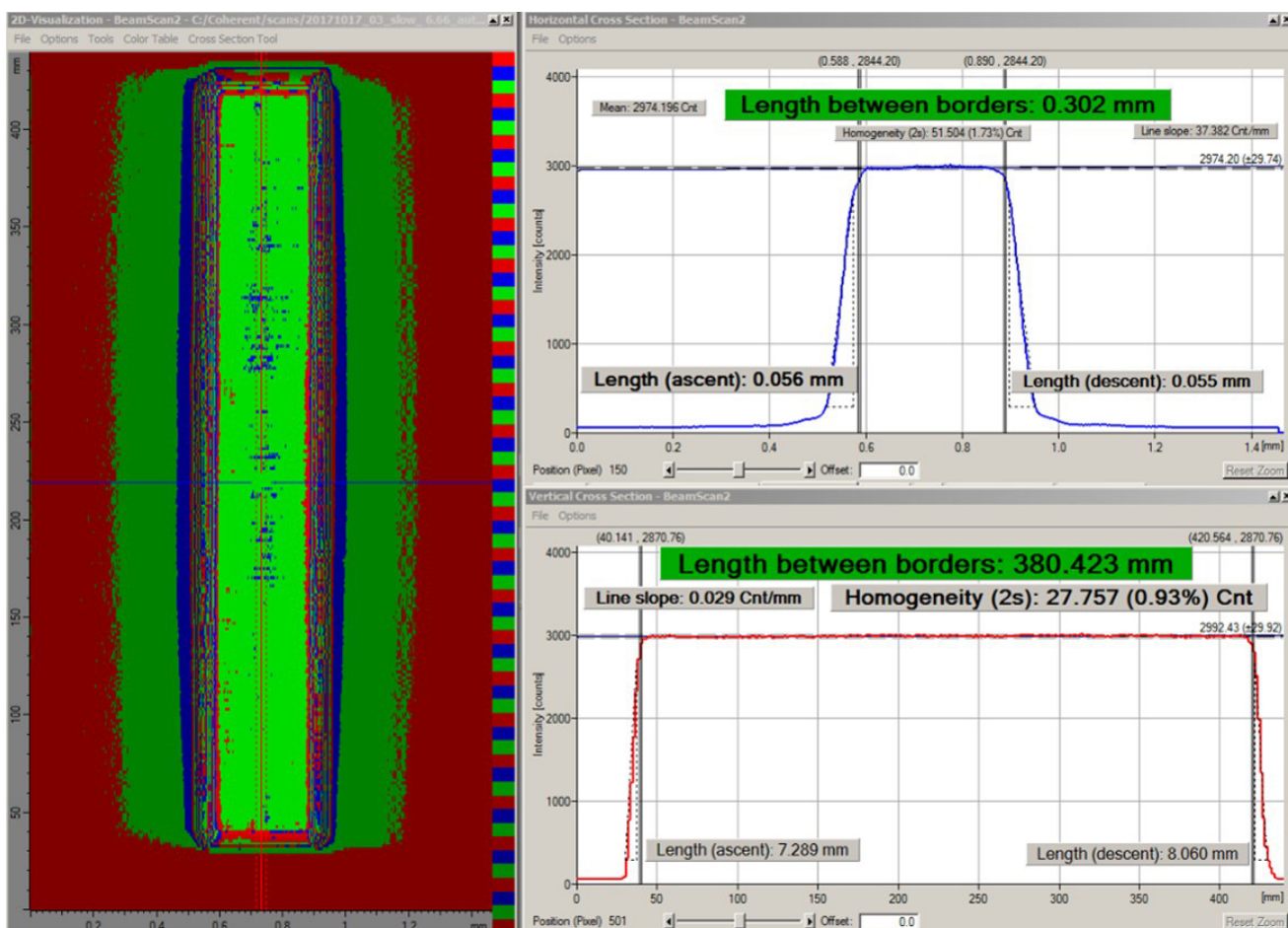


SPECIFICATIONS	UVblade 250	UVblade 380	UVblade 465	UVblade 750	UVblade 1000
Wavelength (nm)	308	308	308	308	308
Laser Pulse Energy (mJ)	580	580	1000	1000/2000 ¹	2000
Repetition Rate (Hz)	200	200	600	600	600
Energy Density (mJ/cm ²) (at 96%)	370	340	330	340/320 ¹	315
Beam Length (mm)	250	380	465	750	950
Beam Width (μm) (at 96%)	400	300	400	250/500 ¹	400
Homogeneity Long Axis (% , 2σ)	1.8	1.8	1.8	1.8	1.8
Steepness Short Axis (μm)	100	70	125	70/125 ¹	85
Depth of Focus (μm)	±200	±200	±150	±100/±150 ¹	±100

¹ High-power version.

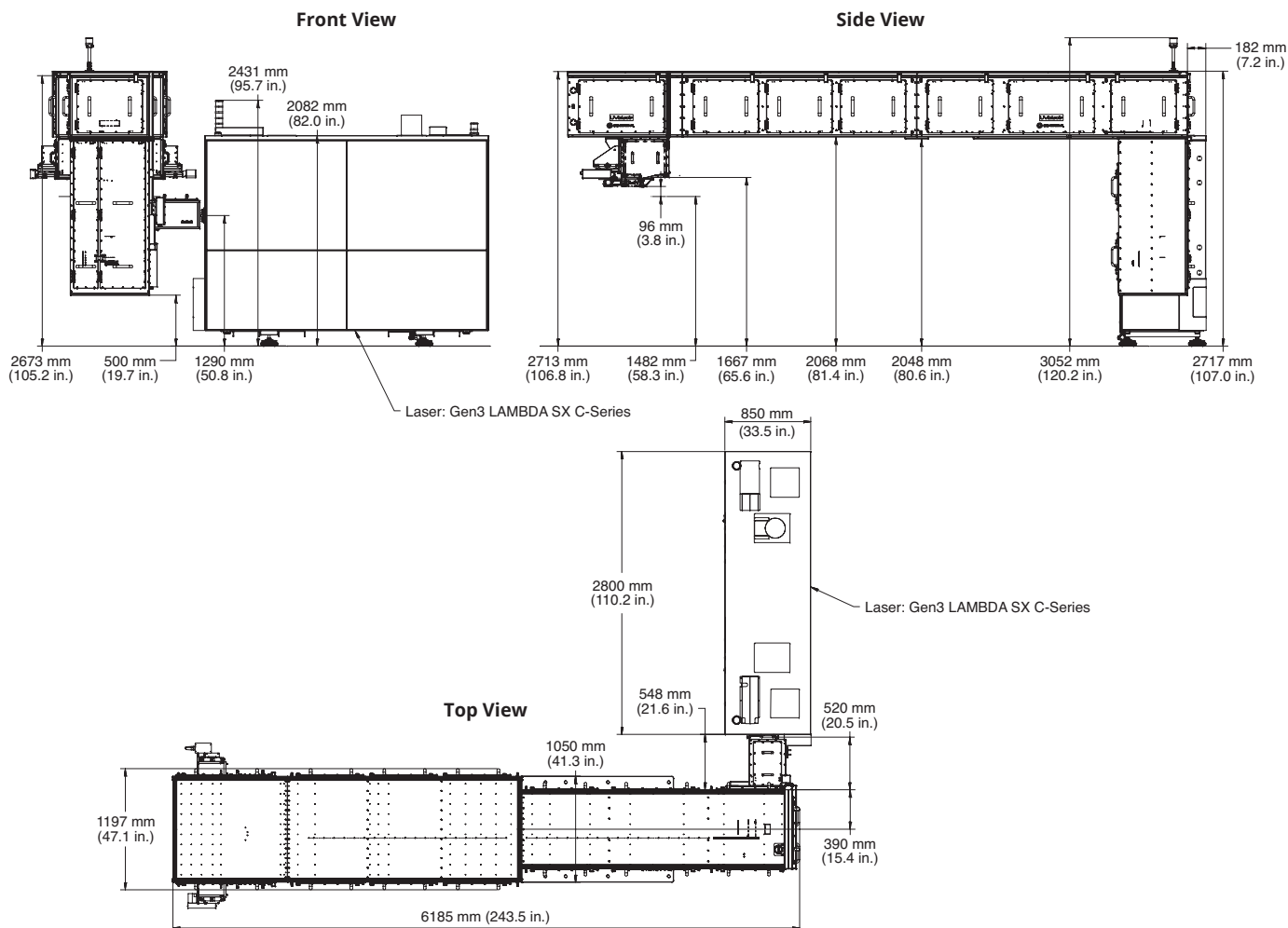
UVblade Performance

2D-profile of the flat-top short and long axis.



MECHANICAL SPECIFICATIONS

UVblade 750



Coherent, Inc.,
 5100 Patrick Henry Drive Santa Clara, CA 95054
 p. (800) 527-3786 | (408) 764-4983
 f. (408) 764-4646

tech.sales@coherent.com www.coherent.com

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 UVblade 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. MC-022-16-0M0818Rev.B Copyright ©2018 Coherent, Inc.

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