

UV MICROPROCESSING AT MACROSCOPIC RATE

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Surface processing with advanced laser technologies is the enabling and often performance determining manufacturing step in many high tech markets and applications. The success formula for any technology is bridging the gap between depositing, structuring or modifying a surface and achieving industrial processing rates, yield and throughput. Most important for process reproducibility, next to shortest possible ablation wavelength, is a stable behavior of consecutive laser pulses as well as the homogeneity of the on-sample laser fluency. These requirements constitute the superiority of excimer lasers as pulsed UV laser sources when it comes to precision and reproducibility in surface treatment and micromachining. Recent progress in excimer laser design and UV optical performance will be introduced enabling fast, high-precision UV manufacturing in cost-sensitive applications. We will focus on the latest laser surface processing trends and technologies from a range of relevant industries.

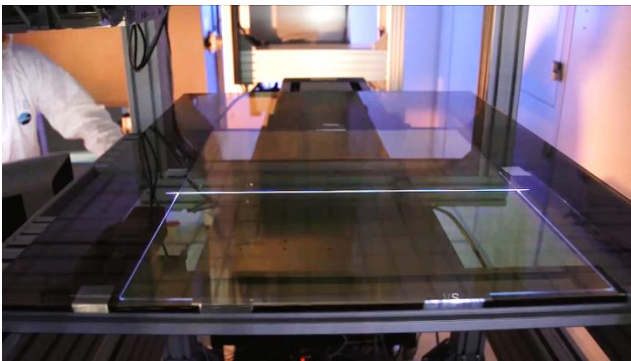


Fig: Line Beam Processing of Display Panel