VCSEL High Speed Camera Illumination

SuperLux

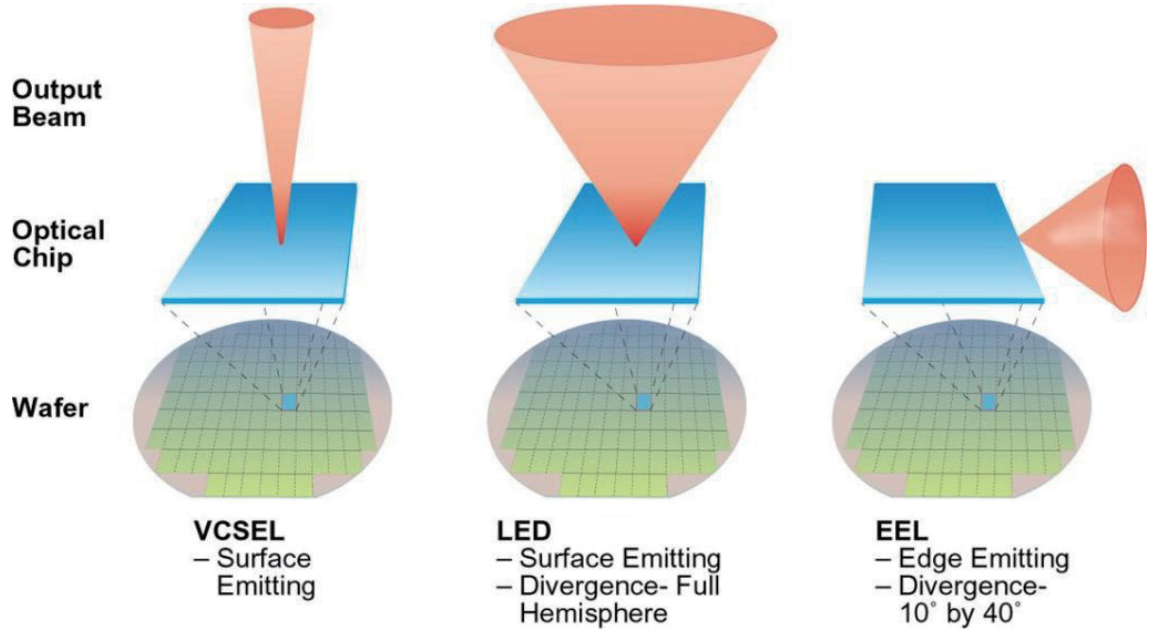
SC-HSI SERIES

SuperLux High-Speed VCSEL Laser Illumination

SuperLux is an excellent laser light source for high-speed camera illumination. It applies VCSEL chips which provides much higher power and intense light.

It can be used for industrial process visualization or scientific research and development. The maximum power of the laser can reach up to 1000W which is the highest power in the market.

VCSEL does not require a back facet monitor like a diode laser; it can be driven like a LED, but at much higher power levels with a much lower drive current.



Applications

Welding monitor imaging
Flows/droplets/sprays/jets imaging
Additive manufacturing
Materials testing
Ballistics/explosions
Shockwaves
Schlieren / Shadowgraphy

Specification

ISystem content	Laser unit, control unit, liquid lightguide (Lumatec Standard, without filter), PC software
Laser wavelength	635nm/808nm/940nm
Peak optical power	100W-1000W
Pulsed width	10ns-10us
Repetition frequency	1-100KHz , with synchronization trigger signal function (for the camera) Supports external synchronization trigger
Adjustable pulse width	Narrow pulse (width < 10ns) , Wide width (100ns-10us)
Editable pulse train	1~10
Minimum pulse duration (at reduced peak power)	10ns
Minimum pulse duration (at full peak power)	100ns
Amount of pulses per frame possible	up to 10
Duty cycle continuous operation (typically for setting up)	1/1000
Duty cycle high speed operation	1/100
Duration of high speed	continuous

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