

NECSEL

Laser Diodes

Necsel is an award winning global organization headquartered in Silicon Valley that designs and manufactures high powered visible lasers. With the support of Ushio Inc., one of the world's largest specialty light source manufacturers, Necsel has become the leader in visible laser system solutions. Their unique patented technology and wide array of wavelengths, from 375 to 800nm, have allowed Necsel to transform cinema projection and specialty lighting markets. Development kits are available to allow you to design your own solution.





LASER DIODES

- Digital Projection
- Remote Source Lighting
- Hazardous Lighting
- Theme Park Attractions
- Forensic Lighting
- Therapeutic
- Spot Curing



Wavelength nm	Power Available in NovaLum					
	100mW	500mW	1W	5W	10W	>10W
375	●	●	●			
405	●	●	●	●		
445	●	●	●	●	●	●
465	●	●	●	●	●	●
490	●	●				
525	●	●	●	●		
635	●	●	●	●		
730	●					
>800	●	●	●	●	●	●



Laser Developer Kit



Thermal Platform Developer Kit

Laser Developer Kits (Optional)

Laser Developer Kit Includes: laser controller, power supply, GUI interface and cables.

Thermal Platform Developer Kit Includes: Controller TEC based cooling system, power supply, GUI interface and cables.

LASER MODULES AND ACCESSORIES

Multi-Color IR-RGB-V NovaLum

The IR-RGB-V NovaLum allows customers to create a custom eight laser module by selecting from various wavelengths. This laser has a 400 micron connector and can be easily integrated into an OEM system when combined with the Necsel Intelligent Controller.

RGB NovaLum 1200

The Necsel RGB NovaLum 1200 offers 1200 lumen brightness levels at D65 and combines red, green, and blue lasers into a 400 μm fiber-coupling. Each laser can be individually modulated and mixed to generate white light or any color in the full color spectrum. Combined with the Necsel Intelligent Controller, this laser gives temperature feedback, modulates at high speed and is easily integrated into any OEM system.

RGB NovaLum 700

The Necsel NovaLum contains red, green and blue lasers to produce a combined output of over 700 white balanced lumens into an extremely small 400 micron core fiber. Combined with the Necsel Intelligent Controller, this laser can be easily integrated into an OEM system.

RGB NovaLum 250

The Necsel NovaLum contains red, green and blue lasers to produce a combined output of over 250 white balanced lumens into an extremely small 400 micron core fiber. Combined with the Necsel Intelligent Controller, this laser can be easily integrated into an OEM system.

NovaLum Developer Kit

This kit includes the controller, connection cables, USB cable, Windows GUI, and a power supply. The functionality of the NovaLum Intelligent Controller offers direct modulation of each individual color as well as temperature feedback and ESD protection.

Laser Neon

The Necsel Laser Neon is a turnkey system that offers the benefits of remote source lighting. Each red, green and blue laser in the box offers a lifetime of over 10 years without failure or color shift. Laser Neon can channel single primary, dual primaries, mixed color gamut, or white light and offers 10 watts of power.



Accessories:



Transport Fiber (1mm)
Transport Fiber (400μm)



Combiner Fiber (3-to-1)



Homogenizing Rod



Mating Barrel



Collimation Lens