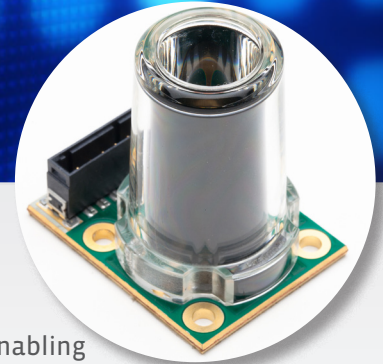


LumiBright™ and Aurora™ Product Lines



Innovations in Optics is pushing the technology envelope to develop industry-leading ultra high brightness LED products incorporating patented and patent-pending optics to direct and maximize output uniformity and efficiency, enabling some of today's most revolutionary solutions in light.

Products

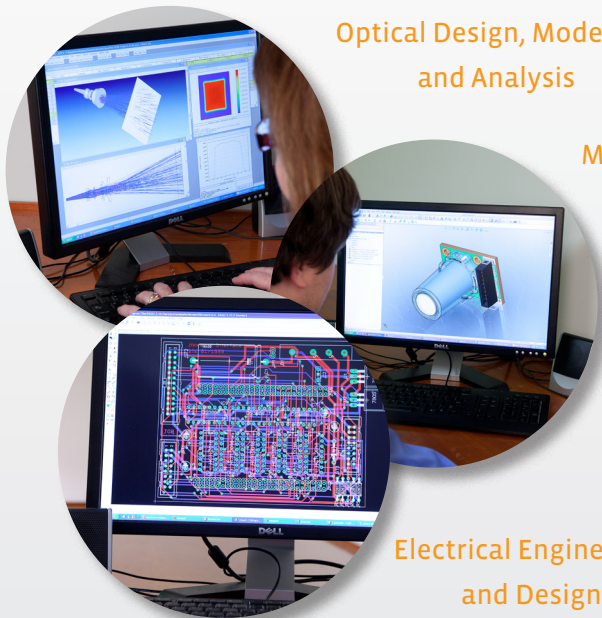
With nearly 20 years of experience serving the optics industry, our product line has grown to include light engines, illumination systems, boards, drivers & controllers and thermal management products and accessories.

Custom OEM

Innovations in Optics' roots were in custom OEM product development; this remains a key strength for us nearly two decades later.

Utilizing our unique, multidisciplinary approach to systems design, we've assisted customers in many different markets since 1993 from concept through volume production to develop custom turnkey optical solutions at our state-of-the-art facility as well as at our partner contract manufacturing facilities.

Systems Design and Analysis



Optical Design, Modeling, and Analysis

Mechanical Engineering and Design

Electrical Engineering and Design

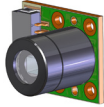

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Assembly		Max # of Die*	Maximum # of Wavelengths	Numerical Aperture	Far Field Half-Angle (degrees FWHM)	Output Aperture Diameter (mm)	UV Glass Optics
2400B-100		7	3	.66	41	8.0	No
2400B-200		14	3	.66	41	7.5	No
2400B-300		7	3	.60	37	5.1	No
2600N-100		7	3	.34	20	15.3	No
2600N-200		9	3	.34	20	13.5	No
2400B-500		7	3	.60	37	5.0	Yes
2400B-400		14	3	.66	41	7.5	Yes
2600N-700		14	3	.34	20	15.3	Yes
2600M-100		16	1	.66	41	5.0	Yes
1800A-100		4	1	.50	30	2.0	Yes

* Maximum # of 42 mil die. Other sizes available by request.

LUMIBRIGHT PRODUCTS

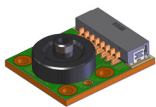

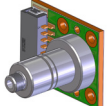

LIGHT ENGINES

TAPERS	Assembly		Max # of Die*	Maximum # of Wavelengths	Far Field Half-Angle (degrees FWHM)	Output Aperture (mm)	Output Aperture Shape	UV Glass Optics
	1320A-200		9	9	37	5.5 x 5.5	Square	Yes
2900A-100		16	16	22	12 x 12	Square	Yes	

XL	Assembly		Maximum # of Die*	Maximum # of Wavelengths	Output Aperture (mm)	Output Aperture Shape	UV Option
	6700B-300		(Nominal 78) 3 Multiples of 78	1	54 x 72	Oval	Yes

LUMIBRIGHT PRODUCTS

FIBER COUPLERS AND ADAPTERS

FIBER COUPLERS	Assembly		Maximum # of Die*	Maximum # of Wavelengths	Maximum Fiber Diameter (mm)	UV Option
	1700A-100		4	3	2	Yes
	1800A-200		4	1 - White	2	No
	2190A-200		4	3	2	Yes
	Adapter 2300A-300		16	16	8	Yes

* Maximum # of 42 mil die. Other sizes available by request.



INNOVATIONS IN OPTICS

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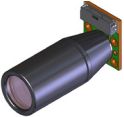


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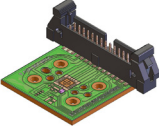

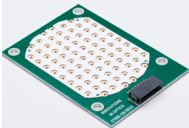

LUMIBRIGHT PRODUCTS

PROJECTORS

PROJECTORS	Assembly		Max # of Die*	Maximum # of Wavelengths	Far Field Half-Angle (degrees FWHM)	Illumination Field (mm)	Output Aperture Shape	Focusable	Zoom	UV Option
	1240B-200		9	9	9 x 14	66 x 100 @ 20cm	Rectangle	No	No	Yes
	2910A-100		16	16	14 x 14	100 x 100 @ 20cm -Variable-	Rectangle, Circle, Square	Yes	No	Yes
	2920A-100		16	16	7 x 7 to 14 x 14 -Variable-	50 x 50 to 100 x 100 @ 20cm -Variable-	Rectangle, Circle, Square	Yes	Yes	Yes

LUMIBRIGHT PRODUCTS

PC BOARDS**

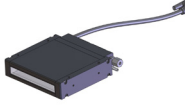
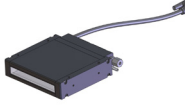

PC BOARDS	Assembly		Maximum # of Die*	Maximum # of Wavelengths	Assembly		Maximum # of Die	Maximum # of Wavelengths
	2400B-550		16	1	2600A-550		7	1
	2400B-560		16	3 Independantly addressable wavelengths	1250B-560		16	16 Independantly addressable wavelengths
	2600N-550		16	1	6700B-550		Nominal 78 Max=234 or 3 Multiples of 78	3 Multiples of 78
	2600N-560		16	3 Independantly addressable wavelengths				

* Maximum # of 42 mil die. Other sizes available by request.

** Thermistor and photosensor options available.







AURORA LINESOURCE PRODUCTS

AURORA EDGE, AURORA CLASSIC

Assembly		Maximum # of Wavelengths Per Unit	Output Line Length	High Power Operation	Finite or Infinite Positions	Output Line Width (mm)	Cooling Options	UV Option
								Yes
Edge		4	From 80mm to 3 meters	Yes	Yes	2.7	Free convection or forced air	Yes
Classic		1	Fixed options in inches: 4, 8, 12, 16, 24	No	Yes	2.7	Free convection or forced air	Yes

LUMIBRIGHT AND AURORA PRODUCTS

DRIVERS AND CONTROLLERS

Assembly		# of Independently Controlled Source Drivers	Maximum Current (Amps) per Source Driver		Maximum Voltage (Volts)
			Continuous	Pulsed	
LumiBright 4200A		1	40	TBD	6
LumiBright 4300A		3	15	TBD	6
LumiBright 4400A		16	4	20	6
Aurora 4000A		2	4	20	50
Aurora 4100A		2	TBD	TBD	TBD

* Maximum # of 42 mil die. Other sizes available by request.



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LUMIBRIGHT AND AURORA PRODUCTS

ACCESSORIES

ACCESSORIES	Assembly				
	Cooling Fans		5 volt, 12 volt, and 24 volt		 Plenum: Cooling fan for Aurora Classic
	Thermal Pads		Standard: Sil-Pad 900S - pink fiberglass	Upgrade: "PGS" Graphite for High thermal conductivity and high flexibility	Thermally conductive grease
	Heat Sinks and Stands		Small heat sink: Black anodized aluminum	Large heat sink: Densely configured aluminum pin fin	 Large heat sink stand: Aluminum with rubber feet
	Heatpipes		120 watt max load	120 watt max load	
	Wire Harnesses		Standard or custom		
Fiber Coupled Adapters		Fiber cable connector: 5mm - 8 mm fiber*	<i>*Image is for reference only - does not include heat sink, fan or stand.</i>		

Individual product data sheets downloadable at www.innovationsinoptics.com

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