

Argon-Ion and Helium- Neon Lasers

The one source for gas lasers



Your Source for Gas Lasers

What makes Lumentum the choice for argon-ion and helium-neon (HeNe) lasers? Whether you are involved in medical research, semiconductor manufacturing, high-speed printing, or another demanding application, we have the expertise, commitment, and technology to ensure you get the best solution for your need.

With more than 35 years of experience, we have an unmatched understanding of the gas laser market. That understanding has led us to devote extensive resources to help establish a premier, high-volume manufacturing facility. Located in Thailand, the facility produces lasers of the highest standard. And we maintain that standard through regional quality management, on-site supplier quality engineering, and regular quality audits.

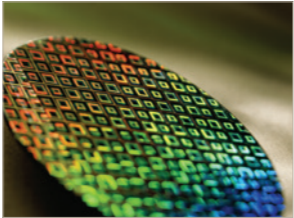
Successful gas laser production requires extraordinary care during the manufacturing process. Every individual throughout each production stage, from engineering and procurement to manufacturing and quality control, is attuned to the highly sensitive nature of the applications for which these products are used. Consequently, we can assure the steady supply of quality products to our customers around the globe. Our products are being used in customers' new systems and as replacement components in the large installed base of existing systems.

Key Gas Laser Applications

Known for their longevity and predictable electrical and optical performance characteristics, our lasers are being used in a wide variety of applications.

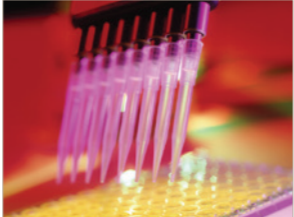
Medical Research

University, medical, and government laboratories on the cusp of new discoveries rely on instruments designed with Lumentum argon-ion and HeNe lasers for cell mapping, genome analysis, and DNA sequencing. Gas lasers have also played a key role in the rapid progress of the human genome project and the evolution of proteomics research.



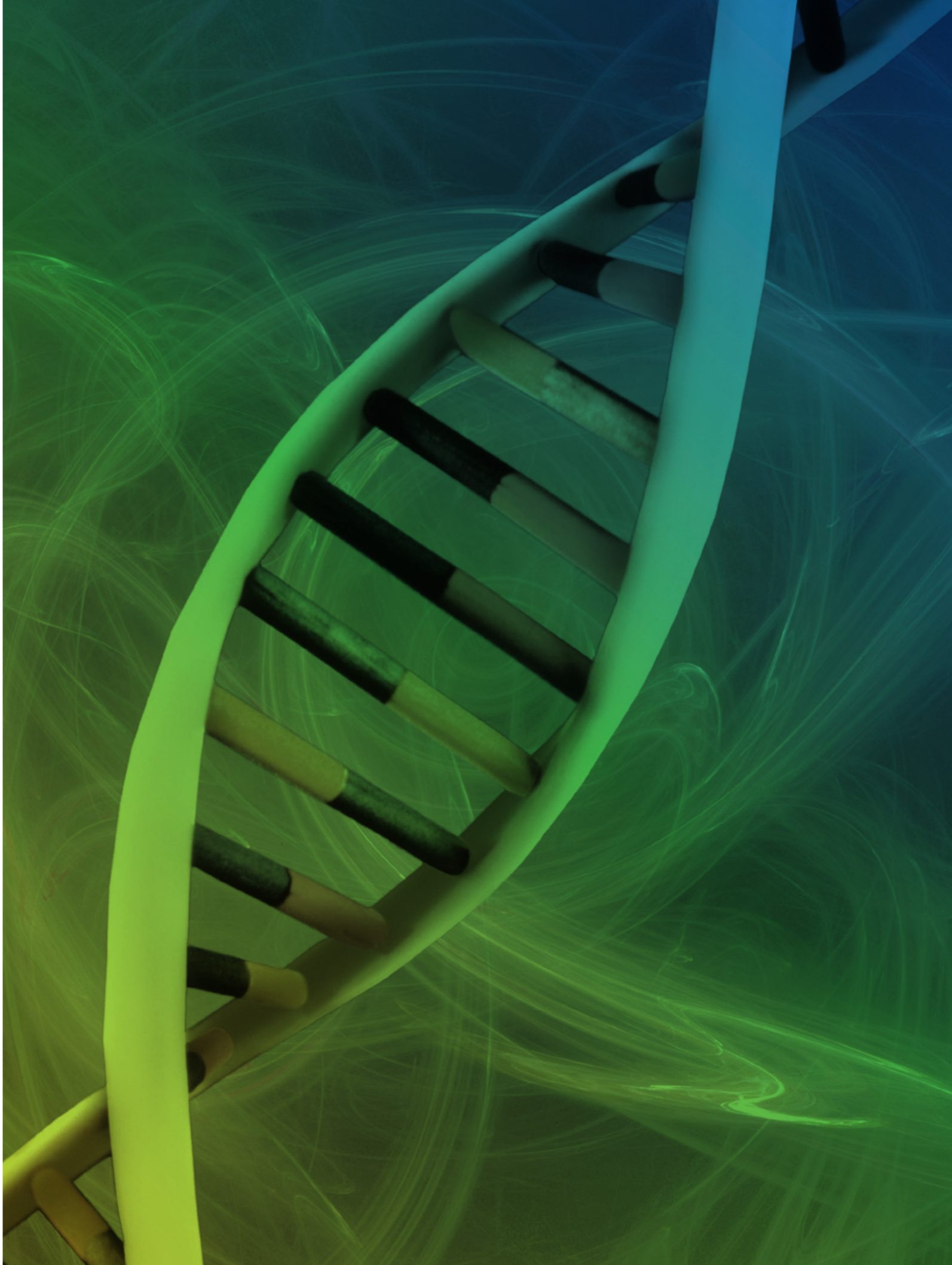
Semiconductor

Lumentum lasers are playing a critical role in semiconductor inspection, helping to improve yields on semiconductor wafers for integrated circuit manufacturing. Our products offer the advantages of excellent beam mode quality, consistent, predictable life time, and true single-line performance.



Reprographics

Lumentum lasers have helped advance highspeed digital printing processes for major worldwide printing laboratories. Our customers want lasers with low optical noise. And Lumentum offers some of the lowest optical noise gas laser products in the industry.





Model	2213-75SL	2213-xxVL	2214-xxSL
Output power (mW)	75	15/25	10/20/30
Wavelength (nm)	488	458	488
Model	2214-4VL	2214-xxGL	2214-xxML
Output power (mW)	4	10/15/20	25/40/65
Wavelength (nm)	458	515	458 to 515
Model	2211-xxSL	2211-4VL	2211-xxGL
Output power (mW)	10/20/30	4	10/15/20
Wavelength (nm)	488	458	515

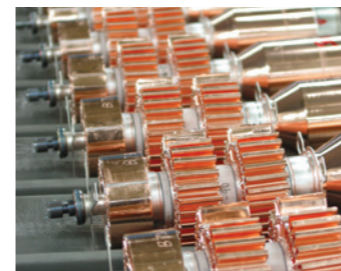
Argon-Ion Lasers

Lumentum argon-ion lasers offer extreme stability over the entire operating range. The maintenance-free design also offers long life even in the most demanding applications.

Our single-line argon-ion lasers produce 458, 488, or 515 nm wavelengths, and our multiline models produce several wavelengths from 458 to 515 nm simultaneously. The laser's power output ranges from 4 to 75 mW. For applications requiring multiple wavelengths, the Lumentum multi-line laser heads feature up to six usable wavelengths, making them an ideal and extremely cost-effective option over current single-line solid-state sources.

Symmetric design and axial airflow of cylindrical laser heads allow for optimum beam pointing stability over the life of the product and fast warm-up times. Initial installation and routine maintenance are straightforward due to tight production control of optical and mechanical tolerances. Blower-induced mechanical vibration is virtually eliminated through the use of flexible ducting between the laser head and blower assembly.

We also offer industry-standard packaging and a variety of wavelength options that ensure easy initial installation and field replacement for most applications. As with the Lumentum cylindrical laser heads, rectangular models incorporate axial airflow for exceptional beam pointing stability and fast warm-up. A top-mounted fan assembly simplifies installation.

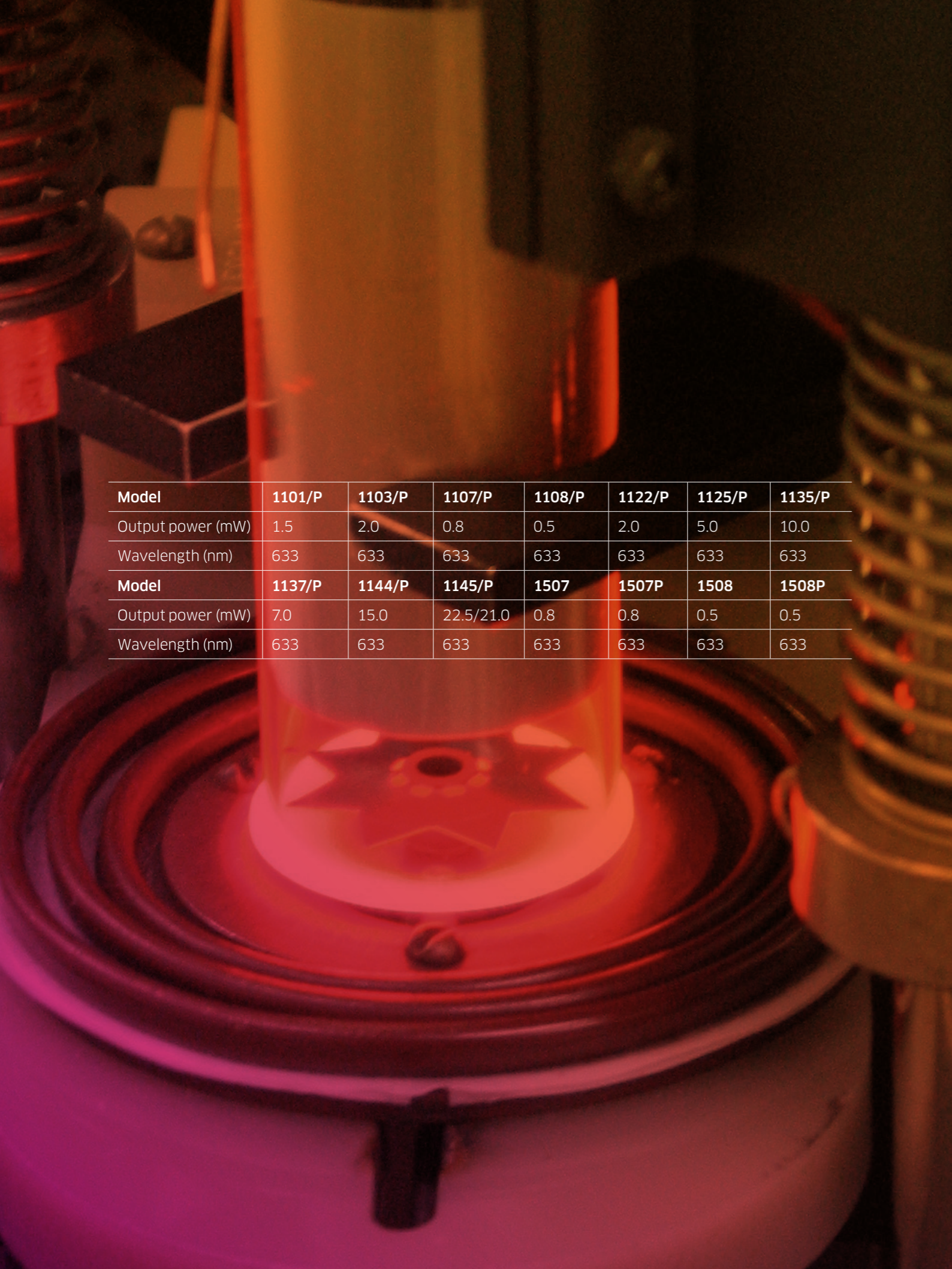


Highlights

2210 Series Argon-Ion Laser Systems

- Single or multi-line operation
- Exceptional beam pointing stability
- Integral-mirror, metal-ceramic construction
- Ultra low noise
- Fast warm-up
- Long life



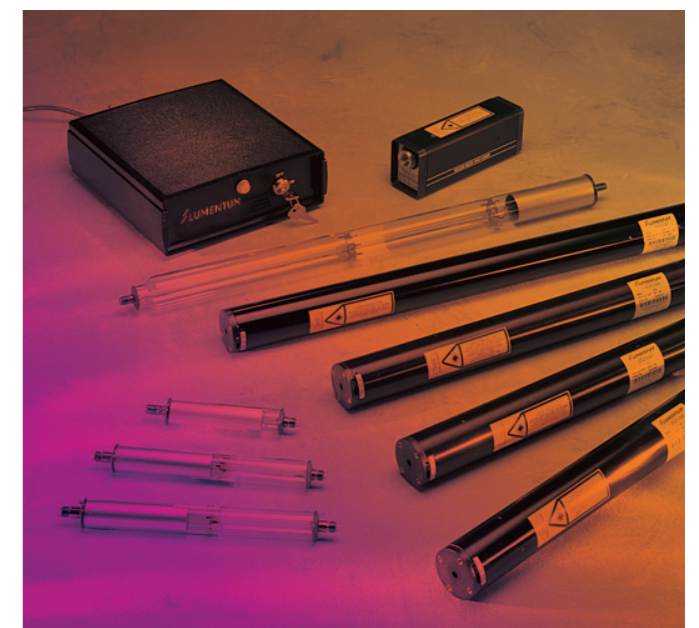


Helium-Neon Lasers

We manufacture HeNe lasers with output powers up to 22.5 mW. These lasers feature the patented Lumentum close-cathode design that rapidly and uniformly distributes discharge heat throughout the laser for excellent beam pointing and power stability. Hard-sealed internal mirrors and low noise provide greater reliability, longer life, and enhanced performance.

Their exceptional mode quality, low beam divergence, and low optical noise make them ideal for the most demanding applications, including flow cytometry, particle sizing, and hematology. In addition, the Lumentum HeNe lasers deliver inherently stable wavelengths and optimal beam quality without requiring thermal stabilization and shaping optics that diode sources often need to produce comparable beam quality.

Our HeNe self-contained Novette™ laser systems incorporate 1000 series HeNe tubes and low-noise power supplies into convenient, compact, low-cost units that meet CDRH requirements. Typical uses include alignment, perimeter detection, and education.



Model	1101/P	1103/P	1107/P	1108/P	1122/P	1125/P	1135/P
Output power (mW)	1.5	2.0	0.8	0.5	2.0	5.0	10.0
Wavelength (nm)	633	633	633	633	633	633	633
Model	1137/P	1144/P	1145/P	1507	1507P	1508	1508P
Output power (mW)	7.0	15.0	22.5/21.0	0.8	0.8	0.5	0.5
Wavelength (nm)	633	633	633	633	633	633	633

Highlights

1100 Series HeNe Gas Lasers

- 632.8 nm wavelength
- 0.5 to 22.5 mW
- Long operating life
- Low noise
- Exceptional beam-pointing stability
- Long-term amplitude stability

Sustainable Solutions

One Source, with a Focus on Customers

No matter which Lumentum gas laser component or subsystem you choose, you will get a highquality solution from a trusted supplier. Adherence to strict manufacturing standards and a commitment to meeting customers' needs have made Lumentum a leader in gas lasers, with tens of thousands of installations throughout the world.

All gas laser heads, power supplies, and accessories are distributed from our primary shipping hub in Thailand. We offer worldwide sales and support with a world-class warranty program. We have customer-service professionals dedicated to regions throughout the world offering distributors and customers a solid contact point to ensure they get the technology and support they need..

Compliance

Argon 2210 Series Laser

- UL and TUV SUD certified to UL 61010-1 and CAN/CSA C22.2 No. 61010-1
- IEC/EN 61010-1
- IEC/EN 60825-1
- CDRH 21 CFR 1040.10

HeNe 1100 Series Laser

- UL and TUV SUD certified to UL 61010-1 and CAN/CSA C22.2 No. 61010-1
- IEC/EN 61010-1
- IEC/EN 60825-1
- CDRH 21 CFR 1040.10

HeNe 1500 Series Laser

- UL certified to UL 61010-1 and CAN/CSA C22.2 No. 61010-1
- IEC/EN 61010-1
- IEC/EN 60825-1
- CDRH 21 CFR 1040.10
- EN 61326-1



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