

7890 LASOS Argon Laser Refurbishment

Features

- Superior Beam Quality
- Low Noise
- Internal Mirror Design
- Extended Lifetimes
- Drop-in Tube Replacement
- Exceptional Warranty

Applications

- Photo Finishing
- Flow Cytometry
- DNA Sequencing
- Confocal Microscopy

Design

Matching the original specifications, National Laser replacement tubes are fit, form, and function compatible with the original design of the 7890 laser. National Laser's replacement tube designs often result in improved performance and increased lifetimes over competitor's products. When refurbishing an argon laser head with a new tube, the primary component of the laser is entirely replaced. In addition to replacing the laser tube with new material, National Laser inspects, and if necessary, replaces damaged components in the laser head in order to offer a new laser warranty.



Product Specifications^{1,2,3}

	7890	
Wavelength	454 / 458nm	514nm
Output Power	≥4mW	≥10mW
Operating Current (Nominal)	<7A	
Power Stability (over 2 hours)	±1%	
Spatial Mode	TEM ₀₀	
M ²	≤1.2	
Beam Diameter @ 1/e ² (mm)	0.65±5%	0.69±5%
Beam Divergence (mrad)	<1.0	<1.1
Polarization Ratio	>250:1	
Pointing Stability over 2 hours (μrad)	±30/±3°C	
Noise (10Hz - 20MHz rms)	≤1.0%	

Warranty

The laser head is warranted to be free from defects in materials or workmanship for a period of twelve (12) months from the date of shipment or five thousand (5,000) hours of operation at or below standard operating specifications, whichever first occurs.

Notes

1. Specifications subject to change without notice.
2. When used with LGN 7872-01 or NLC 2271-01 power supply.
3. Measurements taken in light control after 5 minute warm-up.



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