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## Model 1137, 7mW Random Polarization, Lumentum HeNe Laser



Lumentum High Performance Helium-Neon Lasers



Stock #62-724 **CLEARANCE** 2 In Stock

- 1 + €1.365<sup>00</sup>

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### Product Downloads



### General

Warm-Up Time (minutes):  
10

Manufacturer:  
Lumentum

Type of Laser:  
HeNe

IIIb Laser Class - CDRH:

1137 Model Number:

## Physical & Mechanical Properties

Pointing Stability after Warm Up (mrad/°C):  
After 15 min: <0.02

1.3 Weight (lbs):

15.79 Length of Laser Head (inches):

Static Alignment:  
Centered to Outer Cylinder: ±0.01"  
Parallel to Outer Cylinder: ±1.0 mrad

Pointing Stability (mrad/°C):  
From Cold Start, 25°: <0.1

1.74 Diameter of Laser Head (inches):

## Optical Properties

Random Polarization:

TEM<sub>00</sub> Spatial Mode:

632.80 Wavelength (nm):

±3 Beam Diameter Tolerance (%):

±3 Beam Divergence Tolerance (%):

Mean Power over 8 hrs: ±2.5 Maximum Drift:

0.81 Beam Diameter (mm):

1.00 Beam Divergence (mrad):

Red Color:

>95% Mode Purity (TEM<sub>00</sub>):

## Electrical

7 Output Power (mW):

30 Hz - 10 MHz 0.2% RMS Noise:

435 Longitudinal Mode Spacing, Nominal (MHz):

7.0 Minimum Output Power, TEM<sub>00</sub> (mW):

## Hardware & Interface Connectivity

Power Supply:  
[#18-965](#) or [#18-969](#) (12VDC), [#18-966](#) (24VDC),  
[#11-390](#) (110/220V AC)

Free Space Output Type:

## Environmental & Durability Factors

-40 to +70 Operating Temperature (°C):

0 to 100%, non-condensing Operating Humidity:

-40 to +150 Storage Temperature (°C):

## Regulatory Compliance

[Compliant](#) RoHS 2015:

[View](#) Certificate of Conformance:

[Compliant](#) REACH 241:

## Product Details

110V or 220V power supplies sold separately. These HeNe lasers comply with 21CFR1040 and IEC 825-1:1993.

- Power Options from 0.5 - 22.5mW
- Improved Stability
- Ideal for Interferometry and Metrology Applications
- Random or Linear Polarization Options

Lumentum High Performance Helium-Neon Lasers feature a patented close-cathode design that provides improved thermal and power stability. They also utilize a patented field concentrator design that enables fast turn-on. These Lumentum HeNe lasers also feature precisely aligned cylindrical housings, with cylindrical laser heads and electrical interconnect systems used to simplify system integration. Lumentum High Performance Helium-Neon Lasers' rugged design is ideal for even the most demanding applications. They are exemplary for use within interferometry and metrology applications.

**Note:** Please exercise caution when using a user-provided power supply to not exceed the electrical specifications of the laser as this may cause damage and void the warranty. These HeNe lasers comply with 21CFR1040 and IEC 825-1:1993. Lumentum was previously known as JDSU.

## Technical Information

### Beam Expander Mounting Configurations

Click on an item below to be brought to that item's product page.

