





The PNF series **line generation laser** is a high stability, configurable, premium quality laser for machine vision applications. The PNF features wavelengths between 405-980nm with up to 150mW output power and optional ultra fast digital modulation.

The PNF Series includes Unique Variable Focus™ Technology that allows the user to calibrate the focus of the module and then re-tune the line generator for optimal performance at close or long range.





Features

- Drop-in replacement for existing lasers
- Line generator with even intensity power distribution
- · Optional collimated output
- Choice of Fan Angles:
 5°, 10°, 20°, 30°, 45°, 60°, 70°, 90°
- ESD protection
- Over voltage protection

Applications

- 3D Machine Vision
- · Dimensional Scanning
- Road & Rail Inspection
- Fluorescence
- Illumination

Standard Configurations

Wavelength + Power

10, 20, 30, 50, 100mW 405nm 3, 5, 10, 15, 20, 30, 50mW 450nm 520nm 1, 3, 5, 10, 15, 20, 30, 50mW 635nm 1, 3, 5, 10, 15, 35mW 637nm 150mW 650nm 1. 5. 10mW 658nm 20mW 5, 10, 20, 30, 35, 50, 100, 130mW 660nm 1, 5, 10mW 670nm 685nm 20, 35, 50, 100mW

690nm 35mW 705nm 35mW

780nm 5, 20, 35, 50, 75, 100, 150mW

Web:

808nm 50, 100, 150mW 830nm 30, 50, 100, 150mW 850nm 25, 50, 150mW 980nm 20, 50, 100mW



They can deliver from 0.1mW to 150mW of output power with a wavelength range between 405nm and 980nm.

Additional design features include uniform intensity (non-gaussian) line generators, unique Variable Focus[™] Technology, high wavelength stability, high optical power stability, CW or optional digital modulation >500kHz.

The PNF™ Series offers the highest

output power and fastest modulation speeds of any similar laser module.

The PNF[™] Series of Machine Vision Lasers can be configured for optimal performance at close or long range.

Unique Variable Focus™ Technology allows the user to calibrate the focus of the module and then retune the line generator for optimal performance.

In addition, Power Technology, Inc. provides custom design and manufacturing services that include high and low volume production, custom engineering, and customized connectors. Find out more - call Power Technology today.

Specifications	PNF Series
Wavelength (nm)	405nm - 980nm
Output Power (mW)	1mW - 150mW
Beam Shape	Even Intensity Line
	Free Space Collimated
Available Fan Angles	5°, 10°, 20°, 30°, 45°, 60°, 70°, 90°
Output Parameter	CW or Digital Modulation
Digital Modulation Rate (Max)	>500kHz
Digital Rise Time	1µs
Operating Voltage (VDC)	5V (600-1550nm), 9V (350-600nm)
Maximum Operating Current (mA)	250
Temperature Range (°C)	-10 to +48*
	with Heatsink Option**
Beam Pointing Stability	<10µRad/°C
Dimensions, Ø x L, in. / mm	0.75" x 2.7" 19.07mm x 68.58mm

* Non-condensing 90% R.H.

** Depends on Laser Diode



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