

Vision Take your machine vision application to the next level

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.

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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

405nm	10, 20, 30, 50, 100mW
450nm	3, 5, 10, 15, 20, 30, 50mW
520nm	1, 3, 5, 10, 15, 20, 30, 50mW
635nm	1, 3, 5, 10, 15, 35mW
637nm	150mW
650nm	1, 5, 10mW
658nm	20mW
660nm	5, 10, 20, 30, 35, 50, 100, 130mW
670nm	1, 5, 10mW
685nm	20, 35, 50, 100mW
690nm	35mW
705nm	35mW
780nm	5, 20, 35, 50, 75, 100, 150mW
808nm	50, 100, 150mW
830nm	30, 50, 100, 150mW
850nm	25, 50, 150mW
980nm	20, 50, 100mW

The PNF[™] Series laser modules are designed expressly for Machine Vision applications including 3D Profiling & Mapping, Dimensional Scanning, High-Speed Road & Rail Inspection, Web Inspection and Fluorescence.

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

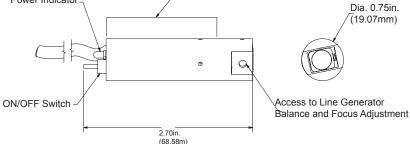
output power and fastest modulation speeds of any similar laser module.

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
Power Indicator	∠Clamping Area 2.00 in (50mm)
	Dia. 0.75in. /(19.07mm)



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