ILLUMINATION

Lasiris™ SNF Laser

STRUCTURED LIGHT PROJECTOR

FEATURES

- Two year warranty
- Uniform line intensity distribution
- ESD, over-temperature, over-voltage, and reverse-polarity protection
- Rugged, shock and vibration resistant design
- User focusable

ORDERING INFORMATION

SNF lasers are covered under a 2-year warranty (parts & labor). All lasers are user focusable. To order, select from the specifications below and use the following code: SNF - Pattern & Interbeam Angle (for multiline) - Wavelength & Power Option (P or S) - Diode Power - Fan Angle. **E.g., SNF-503L(1.5°)-660-35-20**. Call us or visit our website for updates and other specifications.

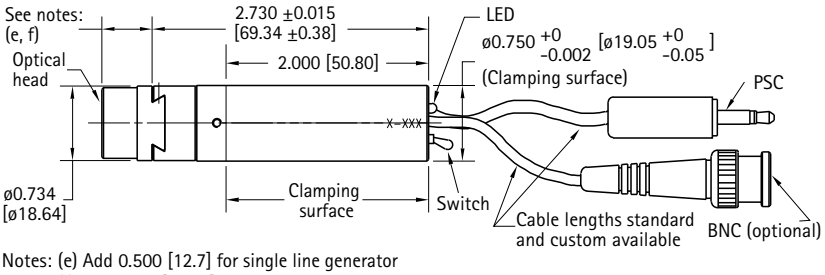
PATTERN		INTERBEAM ANGLE
501L or 701L	1 line	–
503L or 703L	3 lines	1.5°, 5.0°, 11.7°
505L or 705L	5 lines	0.23°, 1.55°
509L or 709L	9 lines	0.11°, 0.07°
511L or 711L	11 lines	1.5°
515L or 715L	15 lines	2.3°
519L or 719L	19 lines	0.77°
533L or 733L	33 lines	0.09°, 0.38°
599L or 799L	99 lines	0.149°

STANDARD WAVELENGTHS & DIODE POWERS	
660 nm	1, 5, 10, 20, 35, 50, 100 mW

Other wavelengths and diode powers are available. Please call us for more details.

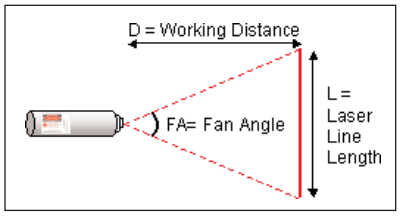
FAN ANGLE
5°
10°
15°
20°
30°
45°
60°
75°

DIMENSIONAL DIAGRAM



Notes: (e) Add 0.500 [12.7] for single line generator
(f) Add 0.900 [22.86] for other patterns

in. [mm]



StockerYale

Laser Safety Class (CDRH)

Our lasers can comply with CDRH and IEC certification. Lasers fall in different safety classes depending on output power, wavelength and fan angle. The chart below will enable you to estimate the CDRH safety class of your laser. Note that results will vary. *Please contact us for details.*

Diode Power (mW)	Fan Angle (degrees) for red lasers							
	5	10	15	20	30	45	60	75
1	II	II	II	II	II	II	II	II
5	IIIA	II	II	II	II	II	II	II
10	IIIA	IIIA	IIIA	IIIA	IIIA	II	II	II
20	IIIB	IIIA	IIIA	IIIA	IIIA	IIIA	IIIA	IIIA
35	IIIB	IIIB	IIIB	IIIA	IIIA	IIIA	IIIA	IIIA
50	IIIB	IIIB	IIIB	IIIB	IIIB	IIIB	IIIA	IIIA
100	IIIB	IIIB	IIIB	IIIB	IIIB	IIIB	IIIB	IIIB

Specifications

Bore sighting	<3 mrad
Operating temperature	-10°C to +48°C with bracket
Wavelength drift	0.25 nm/°C typical
User focusable	Yes

Electrical specifications: Power supply

Input voltage	5 - 6 VDC Optional 9,12,24 VDC, 115/220 VAC
Connector type	Male phono-jack 3.5 mm ø, or custom
Slow start time delay	10 µsec
Reverse-polarity, over-voltage, over-temperature & ESD protection	

Standard Options

Power Adjustment Potentiometer (Code "P")

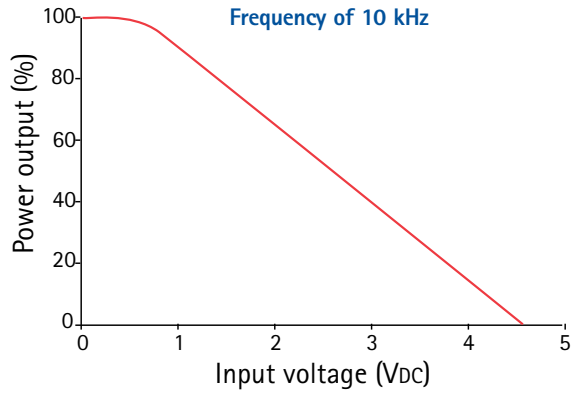
The laser power can be easily changed by adjusting an optional built-in potentiometer with a small screwdriver.

Pulsing & Power Adjustment (Code "S")

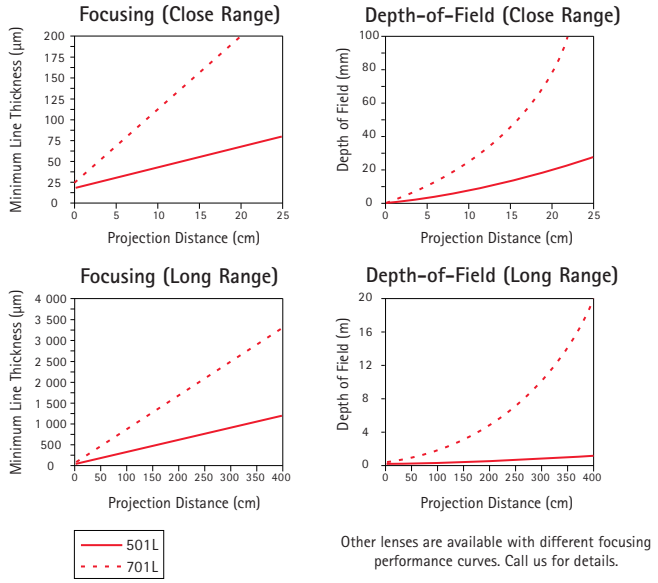
The power can be modulated or pulsed using an external signal. Input voltage of 0 VDC: "on", 5 VDC: "off" (or can be reversed). See figure below.

- Impedance: >1 kΩ
- Rise/Fall time: 10 µsec for 10 kHz

Power adjustment curves



Focusing and depth-of-field performance



Other lenses are available with different focusing performance curves. Call us for details.

Some combinations of specifications may result in different dimensions. Patents: US #4,826,299 / CAN #1,276,827 / US #5,523,889 / Other patents pending

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