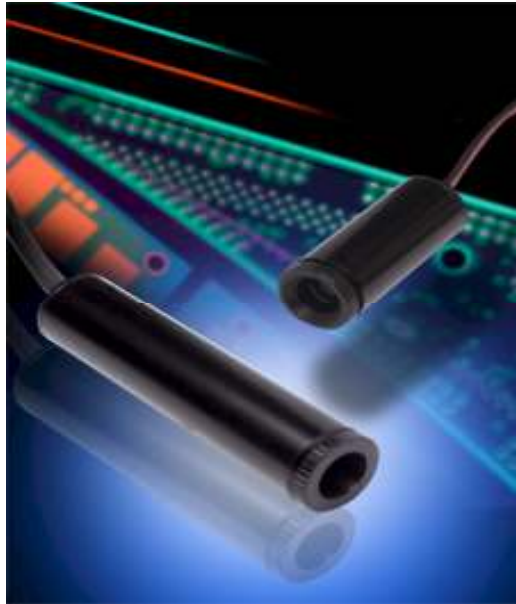


UHL Series Uniform Laser Line

Operation ready laser systems



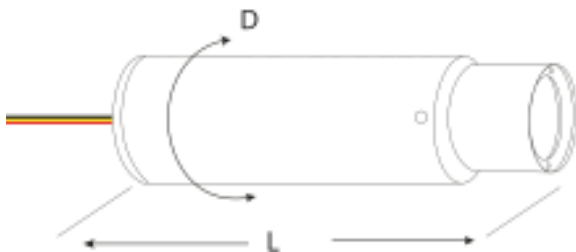
Product Features

- Uniform line distribution along the line
- Collimated or fine laser line
- Custom Options Available

Applications

- Machine Vision
- Size Measurement and Counting
- Inspection & Measurement
- Automation & Alignment

Mechanical Drawing



Specifications

OPTICAL

Wavelength	635 to 850 nm
Optical Output Power	up to 150 mW depending on wavelength
Stability	<1%
Fan Angle	30, 45, 60 and 75 others may be available on request
Noise (20MHz Bandwidth)	<0.5% RMS
Laser Operation	CW TTL Modulation can be added
Laser Structure	Single Mode Laser
Focus Distance	Collimated (default) Can be pre focused to customer's specifications
Minimum Line Thickness	<100 micron at short distances(< 50 micron is available)
Modulation Speed	0 to 1 MHz

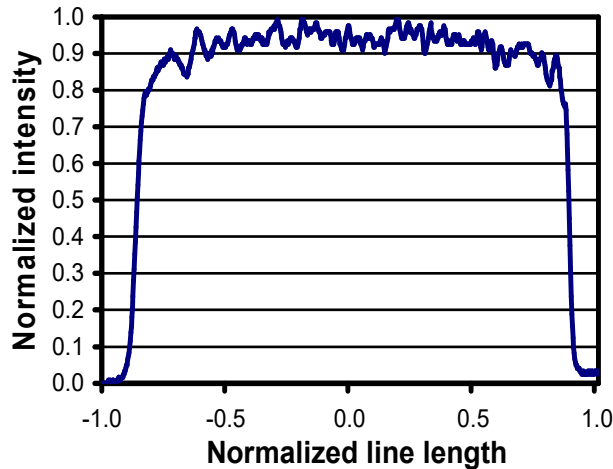
ELECTRICAL

Operating Voltage	3.3 to 5 VDC
Operating Current	<200 mA (laser dependent)
Electrical Connections	+Red, -Black-
Cable Length	200 mm

MECHANICAL

Dimension (Dia * Length)	12mm * 60 mm
Housing Material	Anodized Aluminum
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements	Recommended for extended use

Intensity Distribution



Wavelength (nm)	Power (mW)				
	5	7	10	25	100
635	5	7	10	25	
650	5	7			
658	20	30	50	75	100
670	5	10	15		
690	20	30			
780	15	30	50		
808	50	100	120		
830	30	50	150		
850	40				

Other power and wavelengths are available on request.

Ordering information: **UHL5-pppG-λλλ-**-UNI**

“ppp” power
 “λλλ” wavelength
 “**” fan angle

Eg. UHL5-50G-658-30-UNI (50mW, 658 nm, 30 deg fan, CW laser)

Operational Hazard-Semiconductor Laser Diode Module: This laser module emits radiation that is visible and harmful to human eye. When in use, do not look directly into the laser emitting aperture. Direct viewing of laser diode emission at close range may cause eye damage.

Limited Warranty: One year. No warranty coverage for disassembly, modifications or damage due to abuse or misapplication