

Laser Diode Collimator series LNC-91CM/LNC-91CR

Low Noise Collimator with large elliptical Gaussian beam profile



FEATURES

Collimator with large elliptical Gaussian beam profile

- Collimated beam diameters (truncated below the 13.5%-level) max. 17 mm
- Wavelengths 405 - 830 nm
- Laser powers up to 66 mW
- Cable exit: straight (91CM) or angled (91CR)
- Low noise Laser Module (typ. < 0.15 % of P_0 (RMS, Bandwidth < 1 MHz))

- Low noise, low coherence laser module (typ. < 0.15 % of P_0 (RMS, Bandwidth < 1 MHz))



DESCRIPTION

Laser diode collimators transform the divergent light of a laser diode into a collimated beam, while maintaining the Gaussian intensity distribution and the elliptical intensity profile.

The lasers are low noise (typ. < 0.15 % of P_0 * (RMS, Bandwidth < 1 MHz)) and operate mode-hopping free. Due to the reduced coherence length the speckle contrast is lowered. However this effect is smaller for smaller lines and spots. (* P_0 is the maximum specified output power.)

The laser has integrated electronics for control of the laser output power. The output power can be controlled using the modulation input ports (TTL and analog) or manually using the potentiometer.

The collimation can be adjusted by using an eccentric key. Please note that this affects beam parameters like collimated beam diameter and beam divergence.

These high quality lasers can e.g. be used for machine vision applications.

TECHNOTES

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ACCESSORIES

SWITCHBOXES FOR LASER MODULES

POWER SUPPLIES FOR LASER MODULES

9D-16

Screwdriver WS 1.6

RELATED PRODUCTS

LASER DIODE COLLIMATOR SERIES 90CM/90CR

- Collimator
- **Large elliptical** Gaussian beam profile

LASER DIODE COLLIMATOR SERIES LNC-96CM/LNC-96CR

- Collimator
- **Large circular** Gaussian beam profile
- Low noise

LASER DIODE COLLIMATOR SERIES LNC-56CM/LNC-56CR

- Collimator
- Elliptical Gaussian beam profile
- Low noise

This is a printout of the page https://sukhamburg.com/products/laserm_modules/series/LNC-91.html from 4/24/2024

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