



# Fiber Coupled Dual Wavelength Narrow Linewidth Laser System DN Series

Data Sheet



## Overview

The DN series is a line of fiber coupled dual wavelength narrow linewidth lasers that combines two wavelengths into one box and output from one optical fiber. The laser series has the feature of each wavelength with linewidth less than 0.1nm. The DN series is widely used in Raman spectroscopy, biomedicine, and dual wavelength metrology.

## Features

- Two wavelengths combined into one optical fiber
- CW operating mode
- Narrow spectral linewidth <0.1nm
- Multimode fiber output
- Built-in TEC
- Integrated RS232 option, contains emergency stop button, short circuit protection functions

## Applications

- Raman spectroscopy
- Biomedicine
- Dual wavelength metrology

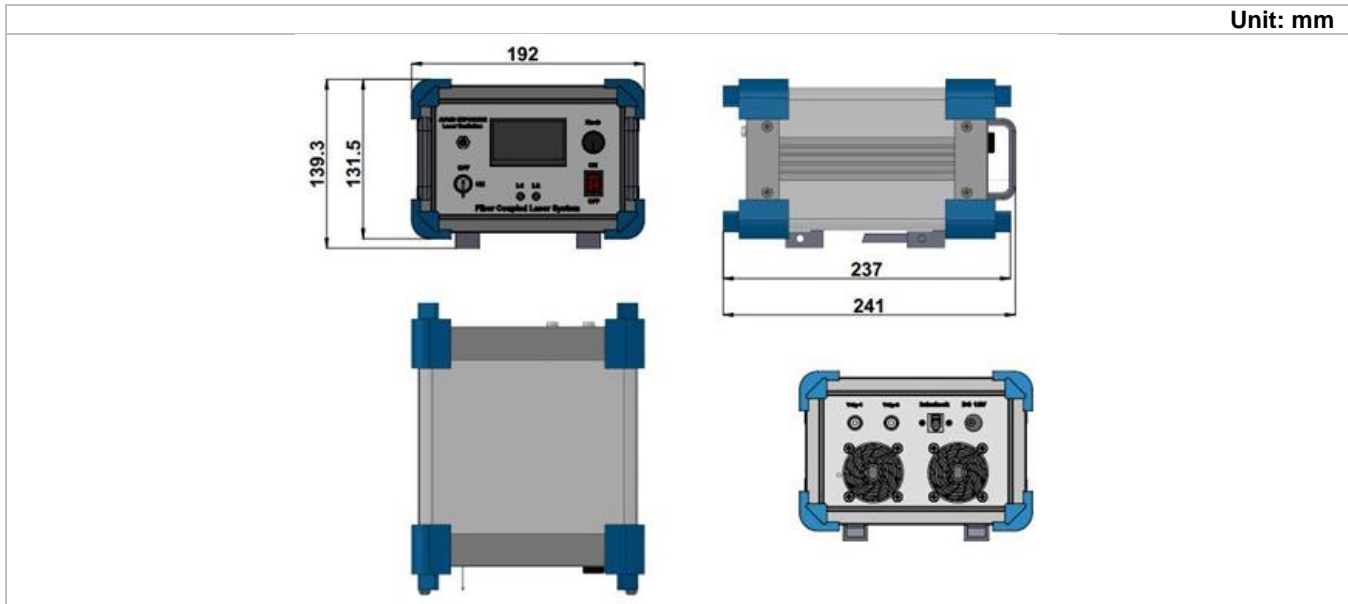
## DN Series Specifications

Parameter	DN532D785	DN784D785	DN785D1064	DN830D1064
Wavelength	532nm/785nm	784nm/785nm	785nm/1064nm	830nm/1064nm
Wavelength tolerance	±0.5 nm	±0.5 nm	±0.5 nm	±0.5 nm
Output power after fiber	100mW/500mW	500mW/500mW	500mW/800mW	600mW/800mW
Operating mode	CW			
Power stability (rms, over 4 hours)	<5%, <3%, ,1%			
Spectral linewidth	<0.1 nm			
Central wavelength stability (rms, over 2 hours)	<10 pm			
Fiber core diameter	100 um MM, 0.22NA			
Fiber connector	SMA905/FC			
Input voltage	12VDC			
Warm-up time	<10 min			
Operating temperature	10-35°C			
Cooling method	Air cooled			
Modulation option	TTL/Analog: 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz			
Expected lifetime	10,000 hours			
Warranty period	10 months			

## Remarks:

- Specifications of the CW laser is based on the laser performance at full power output after the specified warmup period. The stability of output power may change when output power is adjusted at a different power level.

DN Series Laser Dimensions



<b>Parameter</b>	<b>DN Series</b>
Dimensions	192(L)×241(W) ×139.3(H) mm <sup>3</sup>

**Ordering Information**

For more information, please contact Lasermate directly at [sales@lasermate.com](mailto:sales@lasermate.com).

Part Number Configuration DN[1][2][3][4][5]					
DN = Laser Model Series	[1] = Wavelength	[2] = Power Stability	[3] = Modulation	[4] = Spectral Linewidth	[5] = Fiber
	532D785= 532nm/785nm 784D785= 784nm/785nm 785D1064= 785nm/1064nm 830D1064= 830nm/1064nm	A= <5% E= <3% D= <1%	0=None T1=TTL 1Hz-1kHz T2=TTL 1kHz-10kHz T3=TTL 10kHz-30kHz A1=Analog 1Hz-1kHz A2=Analog 1kHz-10kHz A3=Analog 10kHz-30kHz	L= <0.1nm	C= 100um MM fiber, SMA905 H= 100um MM fiber, FC

Note: The above specifications are subject to change without notice.