IMM photonics

All-in-one Compact Visible Laser

Lantana™

Ultra-compact & lightweight unit with integrated driver

Size: 38 x 62 x t22.7 mm

Application examples

- **Biomedical equipment**
  - ➢ **Flow Cytometry**
  - ➢ **Cell Sorting**
  - ➢ **Laser Microscopy**
  - ➢ **Raman Spectroscopy**

Key Features

- **Ultra-compact & lightweight**
- **Integrated driver for CW/pulsed operation**
- **Plug-and-play by USB communication control**
- **Free space output with high-quality elliptical beam suitable for flow cytometry**
- **Fiber-pigtailed output option available (SMF and PMF)**

Specification

- **Wavelength: 532, 561, 594 nm (488, 552, 588 nm under development)**
- **Output Power: 5/20/30/50 mW**

*** Sample of new wavelengths will be available in 2026.**

QD LASER

https://www.qdl-laser.com
sales@qdlaser.com

DP0076-09

Individual. Innovative. Exceptional.

IMM photonics

SPECIFICATIONS

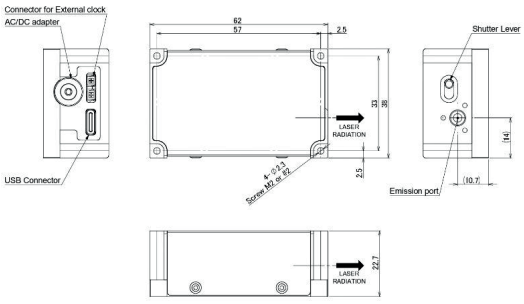
Model Number	QC4LD0593-32xx	QC4LD0593-61xx	QC4LD0593-94xx
Wavelength	532 +/- 2 nm	561 +/- 2 nm	594 +/- 2 nm
Output Power	xx = 20 / 30 / 50 mW		xx = 5 mW
Beam diameter	Typ. 0.5(H) x 1.1(V) mm at $1/e^2$		
Beam divergence	Typ. 1.2 mrad at full-angle		
Beam angle	< 2.5 mrad		
RMS noise	< 0.25% at 120 kHz to 10 MHz		
Power stability	< 2 % (under CW mode, 8hrs)		
Pointing stability	< 30 µrad		
Warm up time	< 5 min.		
Polarization ratio	> 12 dB		
Drive modes	CW, Digital Modulation via serial communication		
Operation mode	APC under CW mode/ ACC under Pulse mode		
Digital modulation	0 – 50 kHz		
Power consumption	Typ. 2.2 W at 50 mW (Typ. 0.8 W on standby) under Tc = 25°C		

Model Number	QC4LD0561-32xx	QC4LD0561-61xx	QC4LD0561-94xx
Output Power	xx = 10 / 15 / 25 mW		xx = 2 mW
Fiber-pigtailed(option)	SMF and PMF pigtailed modules available		

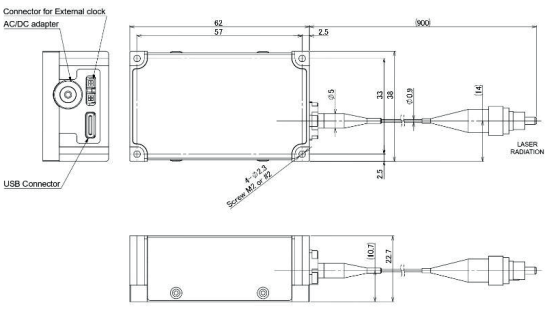
GENERAL SPECIFICATIONS

DC Input Voltage	12V DC
Dimensions	QC4LD0593: 38 x 62 x t22.7 mm (53 cc)
Weights	QC4LD0593: 157g
Ambient temperature	15°C < ambient temp. < 37°C, < 65%RH in operation

MECHANICAL SPECIFICATIONS



QC4LD0593 series



QC4LD0561 series

QD LASER

https://www.qdl-laser.com
sales@qdlaser.com

DP0076-09

Individual. Innovative. Exceptional.