

All-in-one Compact Visible Laser

Lantana

Sales
started!

Ultra-compact & lightweight unit with integrated driver



World's Smallest in its class: 38 x 62 x t22.5 mm

Application examples

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

Key Features

- Ultra-compact (53cc) & lightweight (90g)
- 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, PMF and MMF)

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 2025.



SPECIFICATIONS

Model Number	QC4LD0593-32xx	QC4LD0593-61xx	QC4LD0593-94xx
Wavelength	532 +/- 2 nm	561 +/- 2 nm	594 +/- 2 nm
Output Power to free space	xx = 20 / 30 / 50 mW		xx = 5 / 20 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%		
Pointing stability	< 30 μrad		
Warm up time	< 1 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		
Fiber-pigtailed(option)	SMF, PMF and MMF pigtailed modules available		

ENVIRONMENTAL REQUIREMENTS

DC Input Voltage	12V DC
Dimensions	38 x 62 x t22.5 mm (53 cc)
Weights	90 g
Ambient temperature	15°C < ambient temp. < 37°C, < 65%RH in operation

MECHANICAL SPECIFICATIONS

