

All-in-one Compact Visible Laser

Lantana

Sales
start in
Sept.

Lantana is an ultra-compact light source with integrated driver and is a plug-and-play unit via USB communication

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

- Compact plug and play driver-integrated unit
- Patented high stability single frequency laser combining DFB laser and second harmonic generation
- Unprecedented compact unit 38 x 62 x t22.5 mm (53 cc)
- CW/Modulation light source controlled via serial communication
- Free space output (Fiber-pigttailed output option available)

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 FY2025.



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 / 20 mW |
| Beam Diameter | 0.5(H) x 1.1(V) mm at 1/e ² (TBD) | | |
| Beam Divergence | < 1.2 mrad at full-angle (TBD) | | |
| Beam angle | < 2.5 mrad (TBD) | | |
| RMS Noise | < 1% at 120 kHz to 10 MHz (TBD) | | |
| Warm up time | TBD | | |
| Polarization Ratio | > 12 dB | | |
| Drive modes | CW, Digital Modulation via serial communication | | |
| CW operation | ACC / APC | | |
| Digital Modulation | ACC, 0.1 kHz ~ 10 kHz | | |
| Power Consumption | TBD | | |
| Fiber-pigtailed | available with MMF, SMF and PMF | | |

ENVIRONMENTAL REQUIREMENTS

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

MECHANICAL SPECIFICATIONS

