

LCX-553S

DPSS

Optical characteristics *

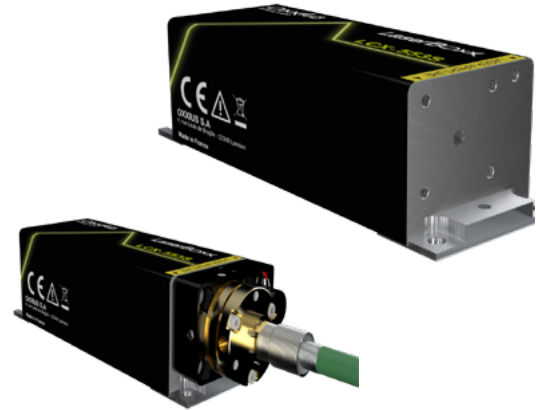
| | | |
|---|-------------------------------|-----------------------|
| Emission wavelength | 553.0 nm (± 0.4 nm) | |
| Wavelength stability over 8 hours and $\pm 3^\circ\text{K}$ | ≤ 1 pm | |
| Linewidth | ≤ 1 MHz | |
| Coherence Length | ≥ 100 m | |
| Output power | Free space | Fiber coupling |
| | 50 mW | 35 mW |
| | 100 mW | 70 mW |
| | 200 mW | 140 mW |
| Control mode(s) | Automatic Power Control (APC) | |
| Power stability over 8 hours and within $\pm 3\text{k}$ | $\pm 1\%$ | |
| Power adjustment range | Optional with L1C-MPA/AOM | |
| Optical noise %RMS, 10Hz - 20 MHz bandwidth | $\leq 0.2\%$ | |

— Transverse singlemode free-space beam

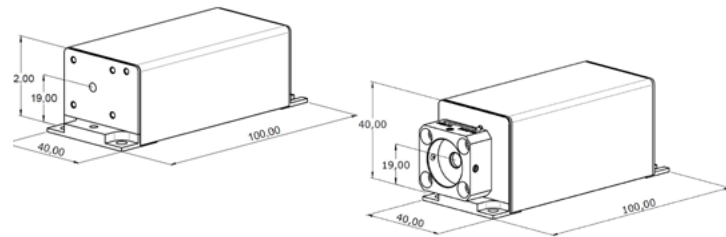
| | |
|--|-----------------------------------|
| Beam waist diameter (typ) at $1/e^2$, 50mm from output aperture | 0.7 mm (± 0.1 mm) |
| Beam divergence at $1/e^2$, full angle, in far field | ≤ 1.0 (± 0.2 mrad) |
| Beam quality factor (M^2) | ≤ 1.1 |
| Beam circularity , in far field | $\geq 90\%$ |
| Polarization extinction ratio (typ) | 1000:1 |
| Polarization state | linear, vertical at $\pm 5^\circ$ |

Fiber coupling option

| Specifications | SM and PM Fiber | MM Fiber (50 μm , 0.22 NA) |
|--|----------------------------------|--|
| Coupling Efficiency | $\geq 70\%$ | $\geq 80\%$ |
| Polarization Ratio (PMF only) | 100 : 1 | n/a |
| Fiber Output Connector | FC-ACPC FC/PC, FCP8 on demand | FC-APC |
| Power stability over 8 hours and within $\pm 3\text{k}$ | $\pm 2\%$ | $\pm 2\%$ |
| Fiber length | 2.0 m | 2.0 m |



System specifications



— Plug and Play version provided with :

- Electro-mechanical shutter
- ControlBoxx
- Power supply

Other options

- Heat sink

General specifications

| | Plug and Play version | OEM version |
|------------------------------|---|------------------------------|
| Compliance | CE FDA 21 CFR 1040.10/1040.11 | FDA 21 CFR 1040.10 / 1040.11 |
| Operating temperature | 10 - 38°C ambient air with optional heat sink | 10 - 50°C baseplate |
| Power consumption | ≤ 25 W | ≤ 20 W |
| Storage temperature | 0 to 60°C | |
| Supply voltage | 100 to 240 VAC external power supply | 5 to 12 VDC |
| Warm-up time | ≤ 10 minutes | |
| Interfaces | USB, RS-232, dedicated electronic interface | |

*Specifications at nominal power
Warranty : 18 months from shipment date



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