

# RGB SLM Laser Module Specifications

Model: RGB50

*Temperature controlled with TECs*

*Narrow spectral line width, perfect for Holography, Interferometry, and Optical Detection Instruments*

*Optical spatial filter is suggested for beam spot cleaning*

- Wavelengths:
  - Red ~ 635nm to 645 nm, ECDL
  - Green ~ 528nm to 535nm, OPSL
  - Blue ~ 445nm to 455nm, ECDL
- Wavelength Stability: < +/-0.1nm, after warming up
- Spectral Line Width: < 0.1nm
- Output Power:
  - > 30mW, for each channel after beam combining filters
  - > 50mW, for each channel before beam combining filters
  - > 20mW, if spot cleaned with 10um pinhole and 20X objective lens
- Beam Size at Window:
  - Red ~ 1.5mm x 3.5mm (oval)
  - Green ~ diameter 2 mm (round)
  - Blue ~ 2mm x 2 mm (square)
- Beam Divergence Angle: <2 mrad
- Optical Shutter: >10Hz, Drive Voltage 5V, installed for each channel
- Power Supply: 5 VDC
- Power consumption:< 15 W
- Operating Temperature: 10C to 40C
- Storage Temperature: -40C to 85C