

BeamQ Laser

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## 561nm Yellow Green Solid State Laser DPSS Source

The color of lasers with 561nm wavelength is neither yellow nor green. The 561nm laser is yellow green.

There are following types of 561nm laser:

Single Longitudinal Mode Laser

Low Noise Yellow Green Laser

High Stability Yellow Green Laser

Yellow Green OEM Laser Module

Fiber Coupled Laser System



Specs & Datasheet:

Wavelength (nm):  $561\text{nm} \pm 1$

Output power (mW): 1-100

Power stability (rms, over 4 hours) : <3%, <2%, <1%

Transverse mode: TEM00

Longitudinal mode: Single

Operating mode :CW

Spectral line width (nm) :<0.00001

Coherent length (m) :>50

Noise of amplitude (rms, 1Hz~20MHz) :<1%, <0.5%

M2 factor :<1.2

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Beam diameter at the aperture ( $1/e^2$ , mm) :<1.5  
Beam divergence, full angle (mrad) :<1.2  
Polarization Ratio :>100:1, Vertical (Horizontal Optional)  
Warm-up time (minutes) :<5  
Pointing stability after warm-up (mrad) :<0.05  
Frequency shift over 8 hours (MHz) (Optional) :< $\pm$ 200  
Frequency shift with Temp (MHz/ $^{\circ}$ C) (Optional) :<200  
Beam height from base plate (mm) :27.4  
Laser head consumption(W) :15 (typical) , <25 ( $40^{\circ}$ C)  
Max. Laser Head Base plate Temp ( $^{\circ}$ C) :50  
Operating Temperature ( $^{\circ}$ C): 10-35  
Power supply (90-264VAC) :PSU-H-FDA  
Expected lifetime (hours) :10000  
Warranty :1 year

The laser applications for the 561nm lasers:

imaging microscopy

