

Quasi-wavelength Space Collimated Laser System



RealLight Technology's quasi-wavelength space collimated output semiconductor laser systems are available in various wavelengths, with excellent power stability. The product serie is compact, portable, equipped with excellent cooling system and user-friendly interface. Reallight Technology also provides customized products according to users' requirements.

Key Features

- ◆ Built-in TEC, Power stability $\pm 1\%$ @8H
- ◆ Several wavelengths available
- ◆ Fiber coupled output optional
- ◆ Contains PC control, short circuit protection functions

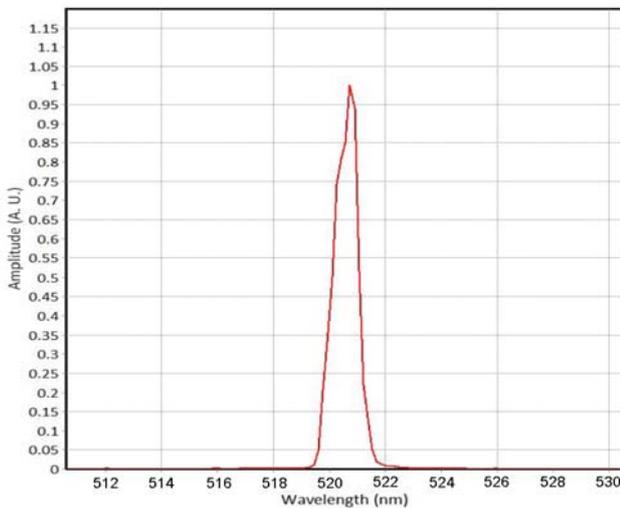
Stardard Wavelengths

- 405nm · 450nm · 520nm
- 638nm · 658nm

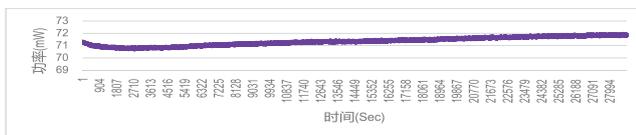
Applications

- Confocal Microscopy
- Laser Display
- Fluorescence Excitation
- Particle Measurement
- Material Processing
- UV Curing

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520m Laser Spectrum

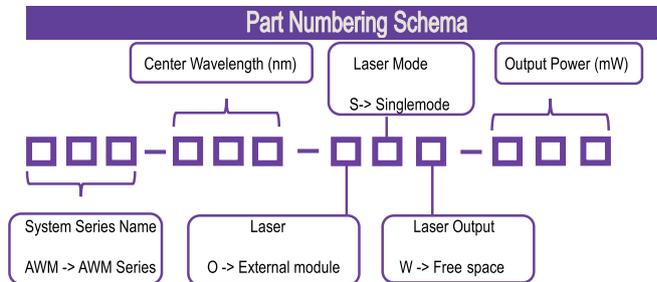


520nm Power Stability@8H

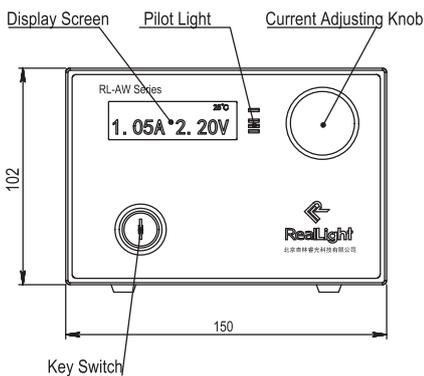
Optical Parameters					
Central Wavelength (nm)	405	450	520	638	658
Wavelength Tolerance (nm)	± 3	± 10	± 5	± 3	± 5
Output Power (mW)	100	70	70	100	100
Linewidth (nm)	0.5	1	1	0.3	0.3
Spot Size (mm)	2x1	2x1	2x3	1.3x0.7	2x1
Beam Divergence Angle	<1.5 mrad				
Power Stability	$\pm 1.0\%$ @ 8H				
System Parameters					
Adjustability%/full Power	0~100%				
Warm up Time	15 min				
Modulation Input	1 KHz TTL or analog sign 0~5V				
Interfaces	USB,BNC				
Supply Voltage	100~240VAC,50/60Hz				
Power Consumption	<5 W				
Storage Humidity	0~80% RH				
Storage Temperature	0~55 $^{\circ}$ C				
Operating Temperature	10~35 $^{\circ}$ C				
Weight	2.2 Kg				
Dimensions	Laser power supply: 50x102x200mm Laser head:36x35x79mm				

Ordering Information

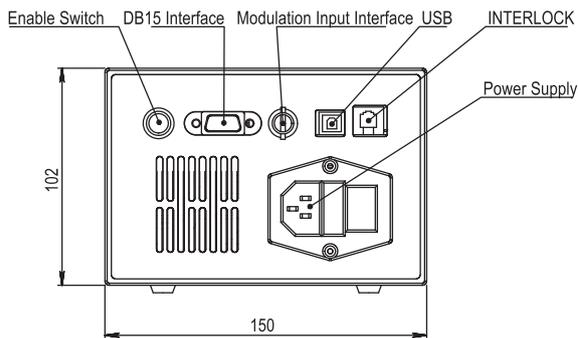
AWM Series Model List			
Wavelength(nm)	Power(mW)	Part Number	Connector
405	100	AWM-405-OSW-100	Free space
450	70	AWM-450-OSW-70	Free space
520	70	AWM-520-OSW-70	Free space
638	100	AWM-638-OSW-100	Free space
650	100	AWM-650-OSW-100	Free space



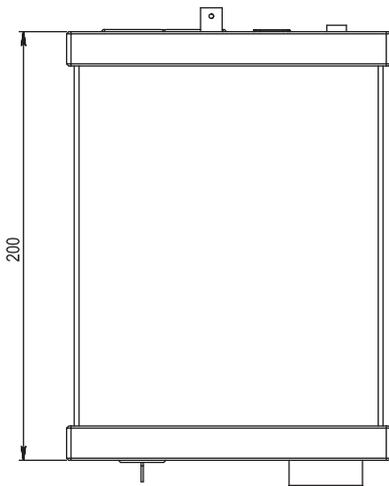
Mechanical Specifications



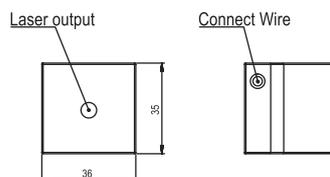
Front View



Back View

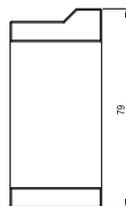


Top View



Front View(laser head)

Back View(laser head)



Top View(laser head)



Unit: mm