AWM Series
Diode Laser System

The AWM series diode laser system utilizes a high-performance, high-power single-wavelength diode laser source, with optional wavelengths including 650nm, 808nm, 910nm, 980nm, 1064nm and 1470nm. With a maximum output power of up to 10W, it is suitable for applications such as tissue vaporization, laser cutting and more.

The AWM series integrates a drive circuit, control circuit and heat dissipation system, the circuit section features standard input/output interfaces, reducing failures caused by compatibility issues between optical and electrical components. Additionally, the built-in TEC for heat dissipation enhances system stability.

Key Features

- Superior power stability
- Excellent beam quality
- Efficient heat dissipation
- High reliability
- Different-wavelength combinations available

Applications

Laser therapy

Laser surgery

Technical Specifications（25℃）

Center Wavelength (nm)		4-wavelength			
		650	808	980	1064
Optical	CW Output Power / P_{op} (W)	0.5	8	10	10
	Wavelength Tolerance (nm)	±10			
	Spectral Width / △λ (nm)	<6			
Aiming Beam	Output Power / P_a (mW)	2			
	Wavelength / λ_a (nm)	650			
Fiber	Output Mode	Fiber detachable			
	Fiber Core Diameter / Dcore (μm)	200, 400			
	Fiber Cladding Diameter / Dclad (μm)	220, 440			
	Fiber Length / L (cm)	100±10 (Customizable)			
	Numerical Aperture / NA	0.22			
	Connector	SMA905			
System	Working Mode	CW/Pulse			
	Repetition Rate (kHz)	0-10			
	Pulse width (ms)	0.05-300			
	Heat Dissipation	Air cooling			
	Operating Temperature (℃)	10-30			
	System Power (W)	≤300			

1. Optional wavelength combinations: 6XX/7XX/8XX/9XX/1064/1470nm.

2. All the data in the above table are the typical values obtained from the tests at room temperature of 25℃, and the final data is subject to the final test report.

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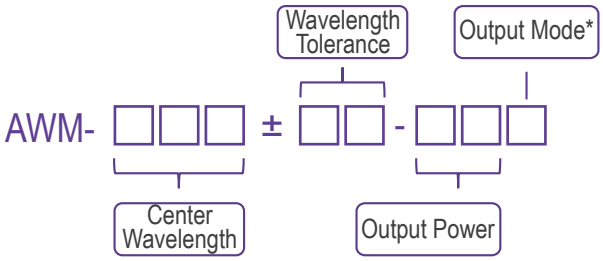
Order Information

Wavelength (nm)	Output Power (W)	Part Number
650/808/980/1064	0.5/8/10/10	AWM-650/808/980/1064±10-0.5/8/10/10WD

Part Numbering Schema



*Output Mode: D - Fiber Detachable

Mechanical Drawings (in mm)