

Infrared series 1064nm cold light laser



5-10W

The laser power

>30kW

The peak power

20000hrs⁺

The service life

Introduction

The frequency 20-30kHz, the pulse width maintains at 6-8ns, lower processing heat and higher peak power can achieve alumina black marking easily, with stronger processing capacity.

Features

- The laser power 5-10W;
- The pulse width 6-8ns, the processing heat is only 1/10 that of fiber laser, which will not cause plastic scorch;
- The peak power >30kW, which is 10 times that of fiber laser, the processing capacity is stronger;
- Anti-reflection function, easy to deal with high reflective materials such as gold, silver and copper;
- Ultra-high stability, with service life over 20,000 hours.

Application

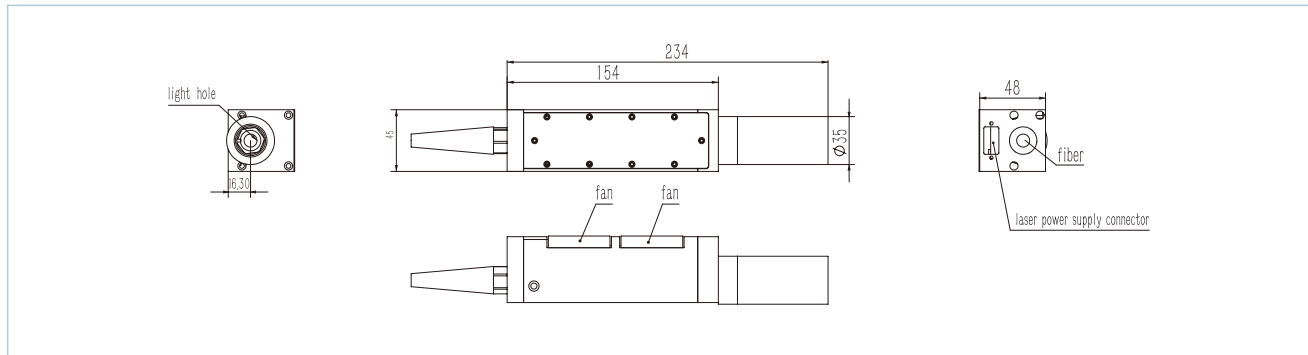
- Material marking - Auto parts, high reflective materials, plastic shell, etc.



Specifications

Model No.	MMEPF-1064-5	MMEPF-1064-8L	MMEPF-1064-8	MMEPF-1064-10
Optical Characteristics				
Wavelength (nm)	1064nm±1nm	1064nm±1nm	1064nm±1nm	1064nm±1nm
Average Power (W)	>5W@20kHz	>8±1W@20kHz	>8W@20kHz	>10W@20kHz
Single Pulse Energy (uJ)	~150uJ@20kHz	~400uJ@20kHz	~400uJ@20kHz	~500uJ@20kHz
Pulse Width (ns)	~7ns@20kHz			
Repetition Rate	Uncontrollable, range 20-30kHz			
Pulse Stability	<3% rms			
Long Term Stability	<±3%			
Beam Characteristics				
Polarization Ratio	Random polarization			
Beam Diameter	7mm			
Beam Circularity	>90%			
Spatial Mode	TEM ₀₀ , M ² <1.2			
Operating Specifications				
Warm-up Time	<15 minutes from cold start			
Electrical Requirement	DC12V, >200W			
Ambient Temperature	10-35°C, RH<80%			
Storage Conditions	-10-40°C, RH<90%			
Physical Characteristics				
Cooling System	Air-Cooled			

Dimensional Drawings



Driver

