Infrared series gem planning laser

1W
The laser power

<20um
Minimum laser spot

20000hrs+
The service life

Introduction

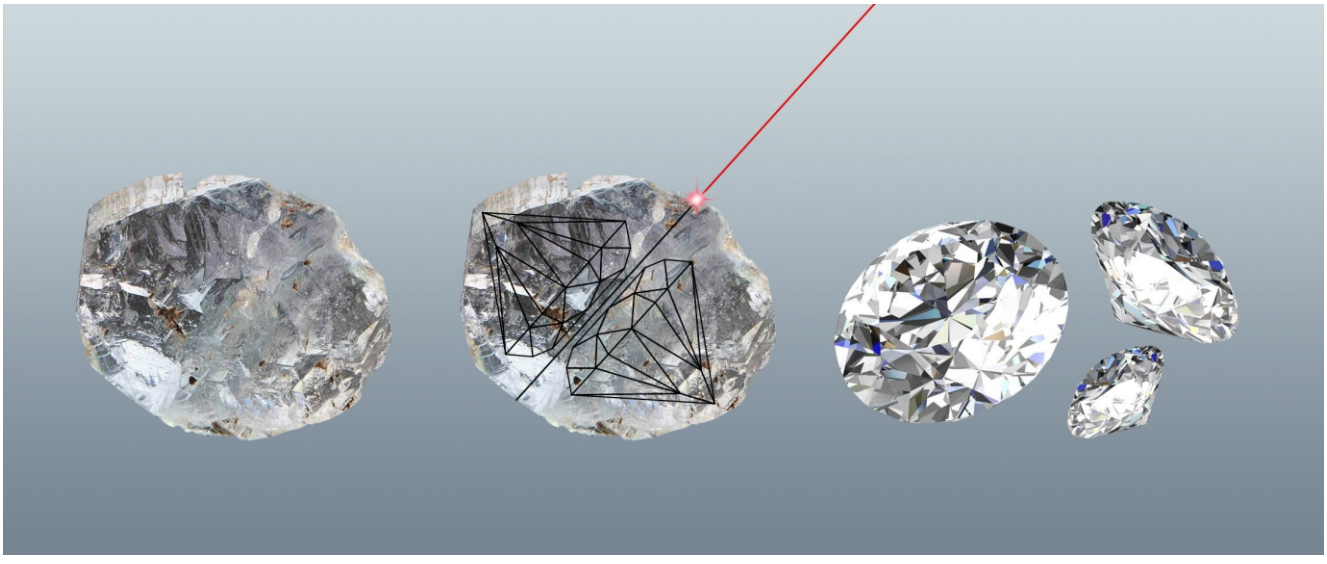
Superior beam quality and peak power ensure to achieve clear and shallow marks on the diamond and minimize the damage to the diamond.

Features

- The laser power 1W;
- Dual mode laser emission-parallel laser mode and focusing laser mode, to meet the needs of different planning machines;
- Superior beam quality, minimum laser spot <20um;
- High-precision temperature control to ensure long-term stable operation of the laser;
- Service life over 20000 hours.

Application

- Gem planning



Specifications

Model No.	MMD-YAG-1064-1
Optical Characteristics	
Wavelength (nm)	1064nm±1nm
Average Power (W)	>1W@12kHz
Single Pulse Energy (uJ)	~30uJ@12kHz
Pulse Width (ns)	~12ns@12kHz
Repitition Rate	~12kHz
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	AC220V/50Hz
Ambient Temperature	10-35°C, RH<80%
Storage Conditions	-10-40°C, RH<90%
Physical Characteristics	
Cooling System	Air-Cooled

Dimensional Drawings