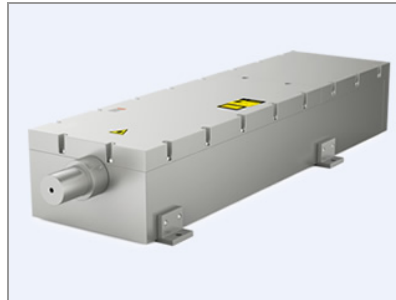


# PRODUCTS

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## Spruce Low-Power Nanosecond Green Lasers

- Stable output of power and pulse width
- Excellent beam quality,  $M^2 < 1.2$
- High beam pointing stability
- Wide repetition rate range: 20-200kHz
- Controllable with RS232 interface
- Unique Intracavity frequency doubling technology.
- Triggerable external



### All Products

- Femtosecond Pulsed Fiber Laser
- Olive-532-4 Olive-1064-10
- **Olive-532-15 Olive-1064-30**
- Olive-1064-50
- **Poplar-355-3 Poplar-355-5**
- **Poplar-355-12 Poplar-355-18**
- Spruce-532-10 Spruce-532-20
- Spruce-532-35
- **Erai-S Olive-S**

### Parameters

	<b>Spruce-532-10</b>
Wavelength	532nm
Output Power	>10W@50kHz
Repetition Rates	20kHz-200kHz
Pulse Width	<20ns@50kHz
Power Stability	≤3%rms
Pulse-to-pulse Stability	≤3%rms
Spatial Mode	TEM <sub>00</sub> ( $M^2 \leq 1.2$ )
Beam Diameter	≤2mm
Beam Divergence	≤2mrad
Beam-pointing Stability	<25μrad
Beam Roundness	≥90%
Polarization Ratio	Vertical, >100:1
Working Material	Nd:YVO <sub>4</sub>
Start Time	<15min
Ambient Temperature	10-35°C
Humidity	<65%
Cooling	Water
Voltage	110/220V, 50/60Hz
Power Consumption	600W
Classification	Class 4
Laser Head Size	517.5×130×84 mm <sup>3</sup>
Power Supply Model	S-500B
Power Supply Size	486×411.5×88.9 mm <sup>3</sup>



Leading Laser Manufacturer

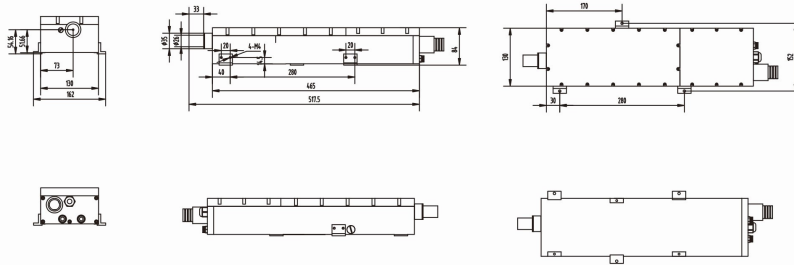
## Introduction

Huaray-Spruce Low-Power Green DPSS Lasers (10W) especially designed for industrial micro-machining field with high-quality laser beam, have the best reliability in industrial field of 24/7, which is suitable for industrial manufacturing environment. Meanwhile, they are characterized by long lifetime, shortest average maintenance time and low usage cost.

## Application

The products are mainly used in FPC / PCB cutting, ceramic drilling dicing, glass / wafer cutting, applications of electronic packaging separated monomer; microporous production of material specific metal; clear the surface of the film, amorphous silicon thin film solar panels coated dash, etc., and is suitable for most metal and non-metallic surface machining or processing of the plated layer.

## Size



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