

PRODUCTS

[HOME](#) >> [Products](#)

Spruce Low-Power 20Watt 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

	Spruce-532-20
Wavelength	532nm
Output Power	>20W@50kHz
Repetition Rates	20kHz-200kHz
Pulse Width	<20ns@50kHz
Power Stability	≤3%rms
Pulse-to-pulse Stability	≤3%rms
Spatial Mode	TEM ₀₀ ($M^2 \leq 1.2$)
Beam Diameter	≤2mm
Beam Divergence	≤2mrad
Beam-pointing Stability	<25μrad
Beam Roundness	≥90%
Polarization Ratio	Vertical, >100:1
Working Material	Nd:YVO ₄
Start Time	<15min
Ambient Temperature	10-35°C
Humidity	<65%
Cooling	Water
Voltage	110/220V, 50/60Hz
Power Consumption	800W
Classification	Class 4
Laser Head Size	417.5×255×81.5 mm ³
Power Supply Model	S-800B
Power Supply Size	486×411.5×88.9 mm ³



Leading Laser Manufacturer

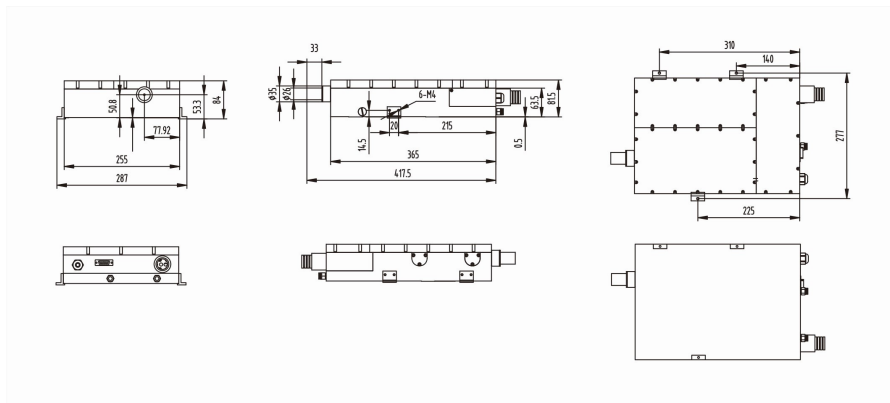
Introduction

Huaray-Spruce Mid-Power Nanosecond Green DPSS Lasers (20W) 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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Site Map

[Home](#)
[Products](#)
[Application](#)
[About Us](#)
[Contact Us](#)
[Chinese Version](#)
[Mailbox](#)

Products

[Femtosecond Laser](#)
[Olive-532-4 Olive-1064-10](#)
[Olive-532-15 Olive-1064-30](#)
[Olive-1064-50](#)
[Poplar-355-3 Poplar-355-5](#)
[Poplar-532-7](#)
[Poplar-355-12 Poplar-355-18](#)
[Spruce-355-3 Spruce-355-5](#)
[Spruce-532-10 Spruce-532-20](#)
[Spruce-532-35](#)

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