

1064nm YAG Laser -200mJ-40Hz



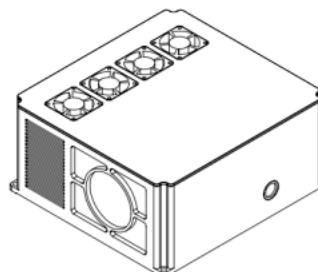
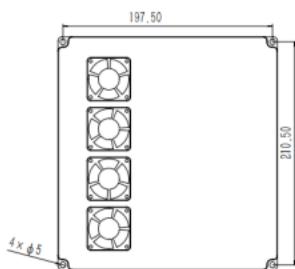
Introduction

It is an electro-optical Q-switched composite Nd:YAG laser with drive circuit control system inside, 1064nm wavelength, $\geq 200\text{mJ}$ peak power, 1~40hz(adjustable) pulse repetition rate and $\leq 3\text{mrad}$ divergence angle, it is able to achieve large energy output, high working frequency, and high conversion efficiency which can realize long-distance ranging and photoelectric countermeasure technology.

Parameters

Wavelength	1064nm
Peak power	$\geq 20\text{MW}$
Pulse width	$\leq 10\text{ns}$
Pulse Repetition Rate	1~40hz(adjustable)
Divergence angle	$\leq 3\text{mrad}$
Continuous operating time	$\geq 5\text{min}(@20\text{hz, under room temperature})$
Operating Temperature	-40°C~60°C
Storage Temperature	-45°C~70°C
Vibration	It can be applied on vehicle/vessel-mounted situation
Dimension	$\leq 208\text{mm} \times 220\text{mm} \times 80\text{mm}$
Weight	$\leq 3.5\text{kg}$
Power supply	DC18V~32V
Power consumption	Peak power consumption is no more than 600W Standby power consumption is no more than 160W
Heat-dissipating method	Air-cooling

Dimension



Interface

1) Socket

It takes J30JM-15ZK and J30JM-15ZJ as interface of power supply and communication

2) Definition

Table 1 “DC28V” definition

Pin.	Definition
1~8	24V+
9~15	GND

Table 2 Communication interface

Pin. No	Definition	Note.
1	External trigger+	3.3V differential
2	External trigger-	
3	RS422 RX+	3.3V differential
4	RS422 RX-	
5	RS422 TX+	3.3V differential
6	RS422 TX-	
7	RS422 GND	Signal GND
8	External synchronization SY+	3.3V differential
9	External synchronization SY-	
10	NC	
11	NC	