

1570nm OPO Laser-80mJ-20Hz



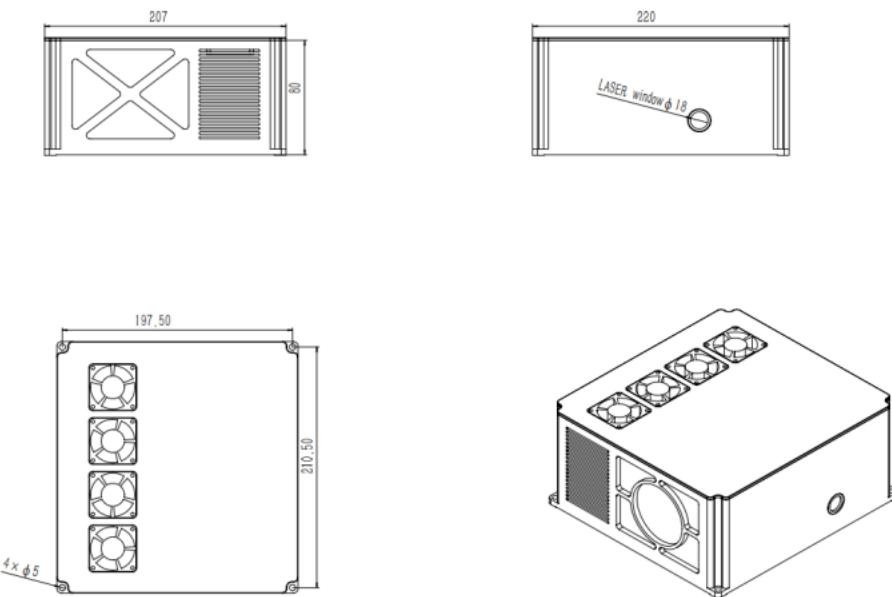
Introduction

It is an electro-optical Q-switched OPO laser with drive circuit control system inside, 1570nm wavelength, 1~20hz (adjustable) pulse repetition rate, ≥80mJ peak power, and ≤6mrad divergence angle. In addition, it is a small and light laser which can be ideal light source of long-distance ranging in high frequency(20Hz) and photoelectric countermeasure technology.

Parameters

Wavelength	1570nm
Peak power	≥10MW
Pulse width	≤10ns
Pulse Repetition Rate	1~20hz(adjustable)
Divergence angle	≤6mrad
Continuous operating time	≥5min(@20hz, 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	≤208mm×220mm×80mm
Weight	≤3.6kg
Power supply	DC18V~32V
Power consumption	Peak power consumption is no more than600W Standby power consumption is no more than160W
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+	Serial port communication
4	RS422 RX-	
5	RS422 TX+	
6	RS422 TX-	
7	GND	Signal GND
8	External synchronization+	3.3V differential
9	External synchronization-	
10	NC	