



455nm Blue light laser-100W

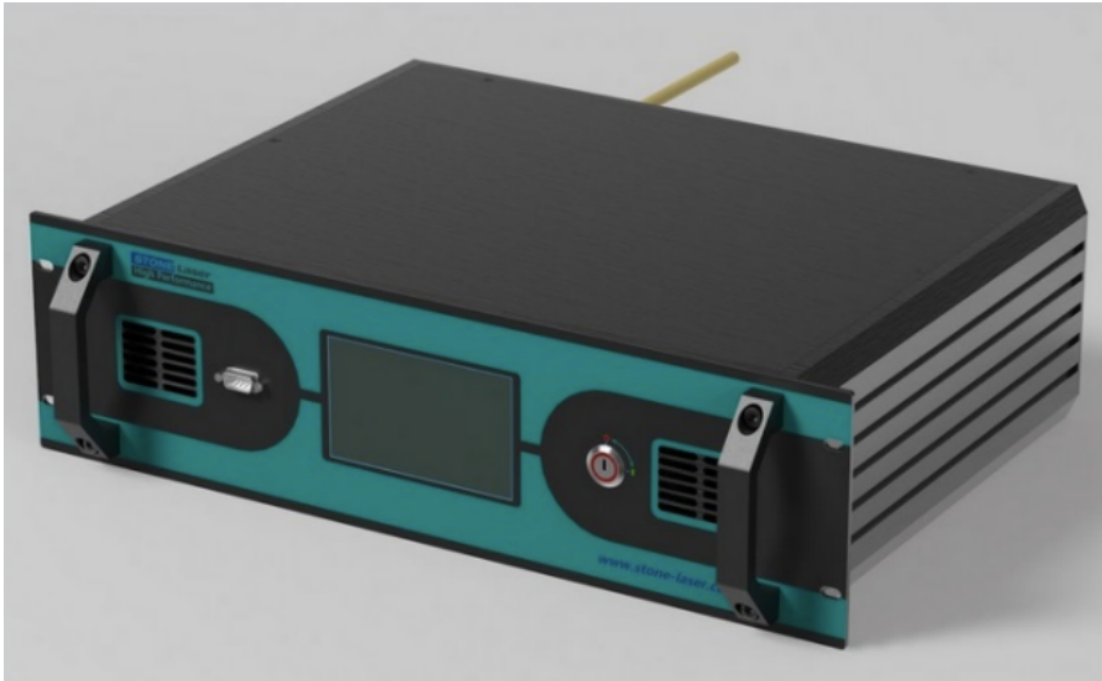


FIGURE 1

The 455nm blue light laser adopts imported LD, which has the characteristics of high brightness, high modulation frequency and pure spectrum. It is suitable for scientific research, industrial welding, laser display, medicine and other fields.

The light source is controlled by a touch screen, which can easily set parameters such as output power, frequency, and duty cycle. At the same time, for the convenience of use, the light source also provides an external control interface. Customers can use the TTL modulation port to synchronize the light-on and off-time of the laser with the external control signal. A key switch on the front panel ensures that only authorized personnel can access the light source.

In addition, for different applications, we can provide customized services such as divergence angle and control method. For details, please contact our engineers.

455nm蓝光激光器采用进口LD，具有亮度高，调制频率高，光谱纯净等特点，适用于科研、工业焊接、激光显示、医药等多个领域。

光源采用触摸屏控制，可以方便的设定输出功率和频率、占空比等参数。同时为了方便

使用，光源也提供外部控制接口。客户可以使用TTL调制口来使激光器的出光和关光时

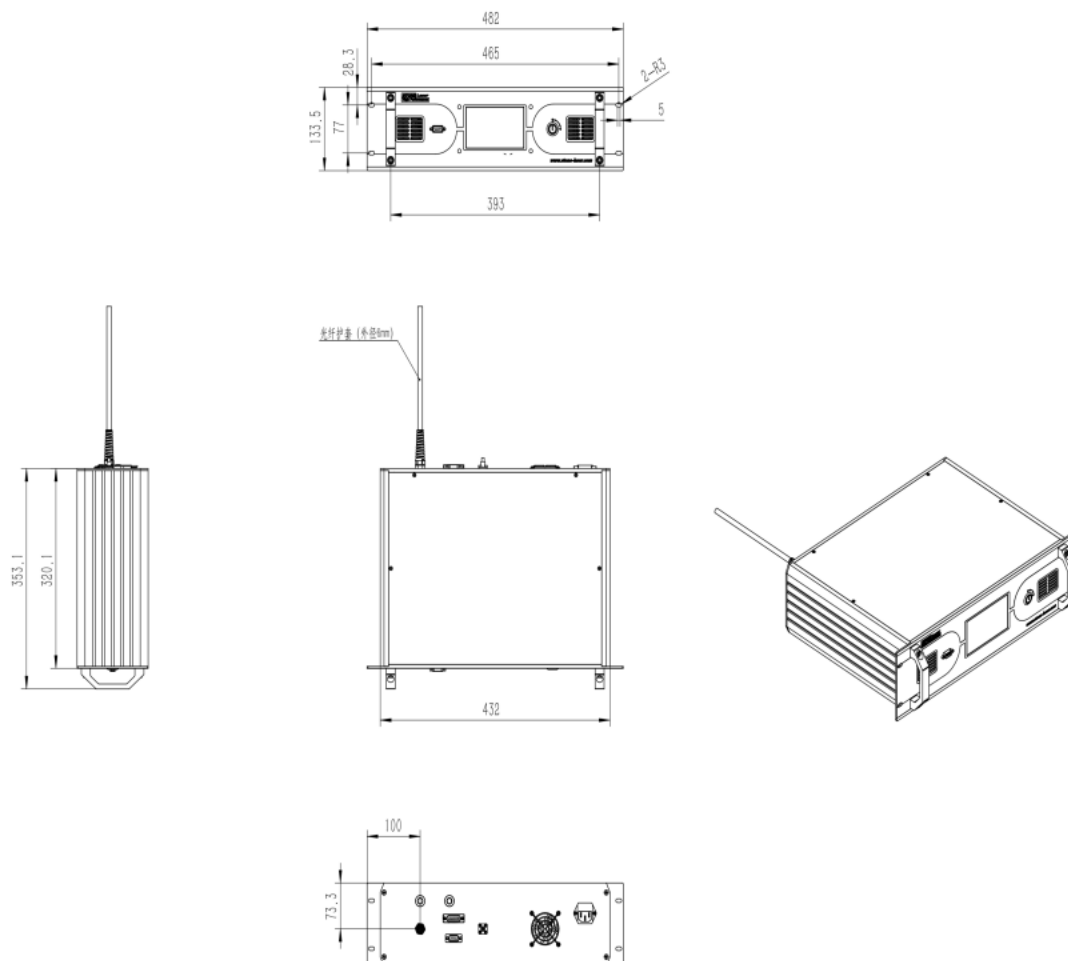


间与外部控制信号同步。前面板的钥匙开关可以确保只有有权限的人员才能使用光源。

另外针对不同应用，我们可以提供发散角、控制方式等的定制服务。具体 可以联系我们的工程师。

参数规格 Specifications	
型号 Model	BDT-C455-W100
光学参数 Optical parameters	
波长 Wavelength	455nm
波长偏差 Wavelength deviation	+/-10nm
输出功率 Output Power	0~100W(可定制 customizable500W)
功率稳定性 Power stability	3%
光纤芯径 (um) Fiber Core Diameter	200, 400, 600um(其他芯径可定制) Other core diameters can be customized
光纤数值孔径 Fiber Numerical Aperture	0.22
光纤连接器 The optical fiber connector	SMA905/FC
光纤长度 Fiber length	4.0m
电学参数 Electrical parameters	
功率显示 Power display	功率百分比 Power percentage
设定精度 Setting accuracy	0.1%
调节范围 Adjustment range	~0 % to 100%
供电电压 Supply voltage	24VDC
控制方式 Control method	触摸屏控制，支持 RS232,RS485串口控制 Touch screen control, support RS232, RS485 serial port control
散热方式 Cooling method	水冷，流量>5升/分钟；水压大于1kg/cm ² ；水管采用内径8mm 外径 10mmPE 软管；制冷机制冷量不小于 300W Water cooling, flow rate > 5 liters/min; water pressure greater than 1kg/cm ² ; water pipe adopts PE hose with inner diameter of 8mm and outer diameter of 10mm; the cooling capacity of the refrigerator is not less than 300W
工作环境 Working environment	
外形尺寸 (mm)	见“系统外形图”See "System Outline Drawing"

Dimensions	
工作温度 Operating temperature	0 to 40 °C(更高或更低工作温度可定制)Higher or lower operating temperature can be customized
存储温度 Storage temperature	-20 to 80 °C
预期寿命 Life expectancy	10000小时 hour
质保 Warranty	1 年 year



FIGUER2 系统外形图 System Outline Drawing